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(54) Title: ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS (GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH ANTIGENIC PEPTIDES

(57) Abstract: The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known antibodies.

ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS
(GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH
ANTIGENIC PEPTIDES

5 CROSS-REFERENCE TO RELATED APPLICATIONS

[1] The present application claims priority from United States provisional patent application No. 60/257,144, filed December 19, 2000 and presently pending.

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MOABS - COMBINATORIAL:

HUMANIZED MOAB:

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LPHIC:

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10 ABSTRACT

[3]

BACKGROUND

[4] G protein-coupled receptors (GPCRs) are a large group of proteins that transmit signals across cell membranes. In general terms, GPCRs function somewhat like doorbells.
15 When a molecule outside the cell contacts the GPCR (pushes the doorbell), the GPCR changes its shape and activates "G proteins" inside the cell (similar to the doorbell causing the bell to ring inside the house, which in turn causes people inside to answer the door). GPCRs are like high-security doorbells because each GPCR responds to only one specific kind of signaling molecule (called its "endogenous ligand"), kind of like a high-tech door
20 lock that responds to only one fingerprint. Part of the GPCR is located outside the cell (the "extracellular domain"), part spans the cell's membrane (the "transmembrane domain"), and part is located inside the cell (the "intracellular domain"). Thus, GPCRs are embedded in the outer membrane of a cell and recognize and bind certain signaling molecules that are present in the spaces surrounding the cell. GPCRs are used by cells to keep an eye on the cells' own
25 activity and on the environment. In organisms that have many cells, the cells use GPCRs to talk to each other.

[5] GPCRs are important to the pharmaceutical industry and other industries. For example, many drugs, including some antibody-based drugs, act by binding to specific GPCRs and initiating or inhibiting their intracellular actions, and diagnostics and therapeutics
30 based on GPCRs or on antibodies for GPCRs are becoming increasingly important.

[6] General concepts about GPCRs are discussed in more scientific terms in the following paragraphs.

[7] The GPCR superfamily has at least 250 members, Strader et al., FASEB J., 9:745-754 (1995); Strader et al., Annu. Rev. Biochem., 63:101-32 (1994). GPCRs play important

roles in diverse cellular processes including cell proliferation and differentiation, leukocyte migration in response to inflammation, gene transcription, vision (the rhodopsins), smell (the olfactory receptors), neurotransmission (muscarinic acetylcholine, dopamine, and adrenergic receptors), and hormonal response (luteinizing hormone and thyroid-stimulating hormone receptors). Strader et al., *supra*; U.S. Patent nos. 5,994,097 and 6,063,596. Many important drugs produce their therapeutic actions through their interaction with GPCRs.

[8] Nucleotide and amino acid sequences for many GPCRs have been reported and can be found in public databases such as GenBank and GenPept. Generally speaking, different GPCRs show both structural and sequence similarities. The most conserved domains of GPCRs are the transmembrane domains and the first two cytoplasmic loops. GPCRs range in size from under 400 to over 1000 amino acids. Coughlin, S. R., *Curr. Opin. Cell Biol.* 6:191-197 (1994). They contain seven hydrophobic transmembrane regions that span the cellular membrane and form a bundle of antiparallel alpha helices. McKee K.K., *supra*. The bundle of helices forming the transmembrane regions provide many structural and functional features of the receptor. In most cases, the bundle of helices form a pocket that binds a signaling molecule. However, when the binding site accommodates larger molecules, the extracellular N-terminal segment or one or more of the three extracellular loops participate in binding and in subsequent induction of conformational change in the intracellular portions of the receptor. These helices are joined at their ends by three intracellular and three extracellular loops. GPCRs also contain cysteine disulfide bridges between the second and third extracellular loops, an extracellular N-terminus, and a cytoplasmic or intracellular C-terminus. The N-terminus is often glycosylated, while the C-terminus is generally phosphorylated. A conserved, acidic-Arg-aromatic triplet present in the second cytoplasmic loop may interact with G Proteins. Most GPCRs contain a characteristic consensus pattern. Watson, S. and S. Arkinstall, *The G protein Linked Receptor Facts Book*, Academic Press, San Diego, CA (1994); Bolander, F. F. *Molecular Endocrinology*, Academic Press, San Diego, CA (1994).

[9] Although GPCRs have many features in common, each GPCR has its own unique characteristics as well. GPCRs have varying nucleotide and amino acid sequences, and varying antigenicity. GPCRs bind a diverse array of specific, extracellular signaling molecules (which can also be referred to as "ligands") including peptides, cytokines, hormones, neurotransmitters, growth factors, and specialized stimuli such as photons,

flavorants, and odorants. Identified ligands include, for example, purines, nucleotides (e.g., adenosine, cAMP, NTPs), biogenic amines (e.g., epinephrine, norepinephrine, dopamine, histamine, noradrenaline, serotonin), acetylcholine, peptides (e.g., angiotensin, calcitonin, chemokines, corticotropin releasing factor, galanin, growth hormone releasing hormone, gastric inhibitory peptide, glucagon, neuropeptide Y, neurotensin, opioids, thrombin, secretin, somatostatin, thyrotropin releasing hormone, vasopressin, vasoactive intestinal peptide), lipids and lipid-based compounds (e.g., cannabinoids, platelet activating factor), excitatory and inhibitory amino acids (e.g., glutamate, GABA), ions (e.g., calcium), and toxins.

[10] In general, a GPCR binds only one type of signaling molecule and GPCRs are classified according to subfamilies based upon their selectivity and specificity for a particular ligand. When the ligand for a receptor is not known, the receptor is known as an orphan receptor. The extracellular domain interacts with or binds to certain signaling molecules or ligands located outside of the cell. The binding of a ligand to the extracellular domain alters the conformation of the receptor's intracellular domain causing the activation of a G protein. The G protein then activates or inactivates a separate plasma-membrane-bound enzyme or ion channel. This chain of events alters the concentration of one or more intracellular messengers (second messengers) such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . These, in turn, alter the activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal. Baldwin, J.M., Curr. Opin. Cell Biol. 6:180-190 (1994). The G protein is deactivated by hydrolysis of GTP by GTPase. U.S. Patent Nos. 5,994,097 and 6,063,596.

[11] GPCR mutations, both of the loss-of-function and of the activating variety, have been associated with numerous human diseases, Coughlin, *supra*. For example, retinitis pigmentosa may arise from either loss-of-function or activating mutations in the rhodopsin gene. Somatic activating mutations in the thyrotropin receptor cause hyperfunctioning thyroid adenomas, Parma, J. et al., Nature 365:649-651 (1993). Parma et al. indicate that it may be possible that certain G protein-coupled receptors susceptible to constitutive activation may behave as proto-oncogenes. Interestingly, GPCRs have functional homologues in human cytomegalovirus and herpesvirus, so GPCRs may have been acquired during evolution for viral pathogenesis, Strader et al., FASEB J., 9:745-754 (1995); Arvanitakis et al., Nature, 385:347-350 (1997); Murphy, Annu. Rev. Immunol. 12:593-633 (1994). The

importance of the GPCR superfamily is further highlighted by the recent discoveries that some of its family members, the chemokine receptors CXCR4/Fusin and CCR5, are co-receptors for T cell-tropic and macrophage-tropic HIV virus strains, respectively, Alkhatib et al., Science, 272:1955 (1996); Choe et al., Cell, 85:1135 (1996); Deng et al., Nature, 381:661
5 (1996); Doranz et al., Cell, 85:1149 (1996); Dragic et al., Nature, 381:667 (1996); Feng et al., Science, 272:872 (1996). It is conceivable that blocking these receptors may prevent infection by the human immunodeficiency (HIV) virus. Other GPCR-related items include regulating cellular metabolism and diagnosing, treating and preventing particular diseases associated with particular GPCRs.

10 [12] One important way to evaluate GPCRs and antibodies for GPCRs as novel drug targets and for other purposes such as diagnostics is through the creation and use of databases. Such databases can provide large amounts of information about genes, proteins, and other biological matter. An excellent example of such a database is the GPCR database created and maintained by LifeSpan BioSciences, Inc., Seattle, Washington, USA, which
15 database is available by subscription to researchers and others needing such information. The information in the databases can, for example, be searched, compared, and analyzed. The compilation of such databases, as well as the searching, comparing, etc., of the databases, can be referred to as the field of "bioinformatics." Investigations largely related to genes, such as the information found from the sequencing of the human genome, can be called "genomics"
20 while similar activities on proteins can be called "proteomics."

[13] There has gone unmet a need for improved systems, compositions, methods, and the like relating to improved antigenicity of peptides from GPCRs and antibodies relating thereto. The present invention provides these and other advantages.

SUMMARY

25 [14] The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention
30 provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known

antibodies. The present invention also provides improved methods of selecting antigenic peptides from any desired protein or polypeptide, as well as antigenic peptides so produced and antibodies against such antigenic peptides.

[15] The antigenic peptides and antibodies herein can be used, for example, to detect the presence or absence of corresponding GPCRs. They can be used to diagnose a variety of diseases and disorders in which GPCRs are involved, such as, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[16] The association of particular GPCRs with particular diseases, disorders or conditions will be apparent to a person of ordinary skill in the art in view of the present application, and thus the association with the antibodies of the present invention to the corresponding diseases, disorders or conditions.

5 [17] Thus, in one aspect the present invention provides isolated antigenic peptides according to any one of SEQ ID NOS. 692-2292. The isolated antigenic peptides also comprise an amino acid sequences that are at least about 90% or 95% identical to such sequences, or be an analog of such sequences, or comprise a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids set forth in any one of such
10 sequences or contain no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any of such sequences. The present invention also provides antibodies, particularly isolated antibody having high specificity and high affinity or avidity for a particular GPCR or other target polypeptide or protein, generated using the antigenic peptides discussed herein.

15 [18] The present invention also provides isolated nucleic acid molecules encoding an antigenic peptide or antibody as described herein. The molecule can encode a naturally occurring human antigenic peptide. In some embodiments, the present invention provides processes for producing an isolated polynucleotide can comprise hybridizing a nucleotide encoding an antigenic peptide as discussed herein to DNA such as genomic DNA under
20 stringent or highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

[19] The present invention also provides kits and assays, such as kits for the detection of antibodies against a particular GPCR or other target polypeptide in a sample comprising: a) an isolated antigenic peptide as discussed herein and derived from the particular GPCR, and
25 b) at least one of a reagent or a device for detecting the antibodies, or comprising: a) an isolated antibody as described herein, and b) at least one of a reagent or a device for detecting the antibody. The assays include detection of a particular GPCR in a sample, comprising: a) providing an isolated antigenic peptide, b) contacting the isolated antigenic peptide corresponding to the particular GPCR with the sample under conditions suitable and for a
30 time sufficient for the antigenic peptide to bind to one or more antibodies specific for the target protein present in the sample, to provide an antibody-bound target protein, and c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the

sample contains the particular GPCR. The assays can further comprise the step of binding the isolated antigenic peptide or the antibody to a solid substrate, and the sample can be an unpurified sample, for example from a human being.

- [20] The assay can be selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.
- 10 [21] In other aspects, the present invention provides methods of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence such as a polypeptide or protein wherein the antigenic peptide has a length of about 5 to about 100 amino acids, typically 6 amino acids to about 50 amino acids, and preferably 7 amino acids to about 20 amino acids. The methods comprise: a) searching the candidate polypeptide sequence using a comparison window of the length, and b) selecting against amino acid sequences of the length and having at least 1 to 3 or 4 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, the method comprises selecting against at least 5 to all of the characteristics.
- 15 [22] The methods can comprise, independently or in addition, selecting against amino acid sequences of the desired length having at least one of the following characteristics 1) sequences having at least 5 consecutive amino acids that are identical to an alternative amino acid sequence from an alternative polypeptide that can be different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences. The posttranslational modification sites can be phosphorylation or glycosylation sites. The methods can also comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.
- 25 [23] These and other aspects, features, and embodiments are set forth within this application, including the following Detailed Description and attached drawings. The present invention comprises a variety of aspects, features, and embodiments; such multiple aspects,
- 30

features, and embodiments can be combined and permuted in any desired manner. In addition, various references are set forth herein, including in the Cross-Reference To Related Applications, that discuss certain compositions, apparatus, methods, or other information; all such references are incorporated herein by reference in their entirety and for all their
5 teachings and disclosures, regardless of where the references may appear in this application.

BRIEF DESCRIPTION OF THE DRAWING

[24] Figure 1 depicts representative examples of the nucleotide and amino acid sequences of the GPCRs for which antigenic peptides are set forth herein, SEQ ID NOS. 1 - 691.

10 [25] Figure 2 depicts amino acid sequences for the antigenic peptides for the GPCRs herein, SEQ ID NOS. 692-2292.

[26] Figure 3 depicts a listing of GPCRS for which commercially available antibodies are putatively available.

DETAILED DESCRIPTION

15 A. INTRODUCTION AND OVERVIEW

[27] Diseases such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases are serious health problems in the modern world. Any improvement in the diagnosis, treatment or other remediation of such diseases is a significant advance for
20 millions of people. The present invention provides methods of identifying and selecting desirable antigenic peptides for GPCRs and other desired target or candidate proteins and polypeptides. The present invention also provides the antigenic peptides themselves, as well as antibodies against the antigenic peptides (and against proteins or polypeptides containing such antigenic peptides), and related diagnostics, antibody-based therapeutics directed to
25 certain diseases and conditions, and other helpful compositions, systems, kits, assays and the like. The compositions, methods, and the like can be useful, for example, as agonists, antagonists, probes, and otherwise as may be desired.

[28] The antigenic peptides have been carefully selected using specific selection criteria and methodologies set forth herein to take advantage of particularly advantageous regions of
30 the GPCRs from which they have been derived to provide unusually specific and

immunogenic antigens. These antigenic peptides are particularly useful for producing highly specific antibodies against the antigenic peptides, which, in turn, also means antibodies that are highly specific for the corresponding GPCRs containing the antigenic peptides. Accordingly, the antigenic peptides of the present invention, and the antibodies produced
5 therefrom, are particularly useful for high specificity, low noise diagnostics and, in the case of the antibodies, for certain antibody-based therapeutics, as well as methods, kits, systems, and the like incorporating or based on such antigenic peptides or antibodies.

[29] The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can
10 selectively detect the corresponding GPCR in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected.

15 [30] The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[31] Figure 1 sets forth the DNA and protein sequences for the GPCRs from which the
20 antigenic peptides of the present invention were derived SEQ ID NOS. 1-691. Figure 2 sets forth the amino acid sequences of exemplary antigenic peptides, SEQ ID NOS. 692-2292. The sequences in Figures 1 and 2 are listed according to SEQ ID NO and LSID, which is an identification number assigned to the given sequence in the LifeSpan Biosciences databases. The sequences in Figure 2 also include an identifier LPID, which is also an identification
25 number assigned to the given sequence in the LifeSpan Biosciences databases. Figure 3 depicts GPCRs for which it has been reported that antibodies are commercially available, SEQ ID NOS. 1, 3, 5, 11, 13, 15, 21, 23, 25, 27, 29, 31, 35, 37, 39, 41, 43, 45, 49, 51, 53, 57, 59, 61, 63, 65, 67, 69, 70, 71, 73, 75, 77, 79, 83, 85, 97, 99, 101, 103, 105, 107, 113, 115, 117, 121, 125, 135, 139, 143, 145, 147, 151, 155, 157, 159, 161, 169, 171, 173, 175, 177,
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423, 435, 439, 457, 459, 461, 462, 468, 470, 472, 503, 507, 515, 535, 537, 546, 548, 552, 562, 628, 636; Applicants do not represent that any of the antibodies in Figure 3 that such antibodies are actually commercially available nor that they have any significant specificity nor affinity for the GPCRs reported. For GPCRs for which no antigens or antibodies were previously known, the present invention provides valuable antigenic peptides and antibodies (see, e.g., SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.); for GPCRs for which antigens or antibodies are known, the present invention provides improved antigens in the form of antigenic peptides and improved antibodies (see, e.g., SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, which are antigenic peptides derived from GPCRs for which antibodies are reportedly commercially available). The antigenic peptides and antibodies, and uses and assays, etc., related to the antigenic peptides, are discussed further below.

[32] The discussion herein, including the following passages, has been separated by headings for convenience. The disclosure under a given heading is not restricted to that heading. For example, the discussion in the definitions section is a part of the disclosure of the invention, the discussion on antigenic peptides also contains discussion related to probes and diagnostics, and the discussion on antibodies contains discussion related to therapeutic compositions, etc.

B. DEFINITIONS

[33] The following paragraphs provide a non-exhaustive list of definitions of some of the terms and phrases as used herein. All terms used herein, including those specifically described below in this section, are used in accordance with their ordinary meanings unless the context or definition indicates otherwise. Also unless indicated otherwise, except within

the claims, the use of "or" includes "and" and vice-versa. Non-limiting terms are not to be construed as limiting unless expressly stated (for example, "including" means "including without limitation" unless expressly stated otherwise).

[34] The terms set forth in this application are not to be interpreted in the claims as indicating a "means plus function" relationship unless the word "means" is specifically recited in a claim, and are to be interpreted in the claims as indicating a "means plus function" relationship where the word "means" is specifically recited in a claim. Similarly, the terms set forth in this application are not to be interpreted in method or process claims as indicating a "step plus function" relationship unless the word "step" is specifically recited in the claims, and are to be interpreted in the claims as indicating a "step plus function" relationship where the word "step" is specifically recited in a claim.

[35] "Agonist" indicates a substance, such as a molecule or compound, that interacts with a particular GPCR, for example by binding to the GPCR, to activate, increase, or prolong the amount or the duration of the effect of the biological activity or functionality of the GPCR. Agonists include proteins, nucleic acids, carbohydrates, or any other molecules that bind to and positively modulate the effect of the GPCR. Agonists and other modulators of the particular GPCR can be identified using *in vitro* or *in vivo* assays for G protein-coupled receptor expression or G protein-mediated signaling. For example, assays for agonists and other modulators include expressing a particular GPCR in cells or cell membranes, applying putative modulator compounds in the presence or absence of a specific known or putative ligand and then determining the functional effects on the particular GPCR-mediated signaling. Samples or assays comprising a particular GPCR that are treated with a potential agonist or other modulator are compared to control samples without the agonist or other modulator to examine the extent of modulation. Control samples can be assigned a relative activity value for the particular GPCR of 100%. Agonist activity on a particular GPCR is achieved when the G protein-coupled receptor activity value relative to the control is at least about 110%, optionally about 150%, preferably about 200-500%, or about 1000-3000% or higher. Down-modulation (for example by an antagonist) of a particular GPCR is achieved when the particular GPCR activity value relative to the control is at most about 90%, typically about 80%, optionally about 50% or about 25-0% of the 100% value.

[36] "Aggregate," see Complex.

[37] "Algorithm" refers to a detailed sequence of actions to perform to accomplish some task. In computer programming, refers to instructions given to the computer.

[38] "Allele" or "allelic sequence" indicates an alternative form of the gene encoding the GPCR. Alleles may result from at least one mutation in the nucleic acid sequence and may
5 result in altered mRNAs or in polypeptides whose structure or function may or may not be altered. Any given natural or recombinant gene may have none, one, or many allelic forms. Common mutational changes that give rise to alleles are generally ascribed to natural deletions, additions, or substitutions of nucleotides. Each of these types of changes may occur alone or in combination with the others, one or more times in a given sequence.

10 [39] "Altered" nucleic acid sequences encoding the GPCR include those sequences with deletions, insertions, or substitutions of different nucleotides, resulting in a polynucleotide encoding the same GPCR or a polypeptide variant with at least one substantial structural or functional characteristic of the GPCR. Included within this definition are polymorphisms that may or may not be readily detectable using a particular oligonucleotide probe against the
15 polynucleotide encoding the GPCR. "Altered" proteins may contain deletions, insertions, or substitutions of amino acid residues that produce a silent change and result in a functionally equivalent GPCR. Deliberate amino acid substitutions may be made on the basis of similarity in polarity, charge, solubility, hydrophobicity, hydrophilicity, or the amphipathic nature of the residues, as long as the biological or immunological activity of the GPCR is
20 retained. For example, negatively charged amino acids may include aspartic acid and glutamic acid, positively charged amino acids may include lysine and arginine, and amino acids with uncharged polar head groups having similar hydrophilicity values may include leucine, isoleucine, and valine; glycine and alanine; asparagine and glutamine; serine and threonine; and phenylalanine and tyrosine.

25 [40] "Alternative splicing" refers to different ways of cutting and assembling exons to produce mature mRNAs.

[41] "Amino acid" refers generally to any of a class of organic compounds that contains at least one amino group, $-NH_2$, and one carboxyl group, $-COOH$. The alpha-amino acids, $RCH(NH_2)COOH$, are the building blocks from which proteins are typically constructed.
30 Amino acid can also refer to artificial chemical analogues or mimetics of a given amino acid as described, depending on the context.

[42] "Amino acid sequence" refers to a string of amino acids, such as an oligopeptide, peptide, polypeptide, or protein sequence, or a fragment of any of these, including naturally occurring or synthetic molecules and those comprising an artificial chemical analogue or mimetic of a given amino acid. In this context, "biologically active fragments," "biologically functional fragments," "immunogenic fragments," and "antigenic fragments" refer to fragments of the GPCR that are preferably about 15, 25, or 50 or more amino acids in length and that retain a substantial amount of such activity of the GPCR. Where "amino acid sequence" refers to an amino acid sequence of a naturally occurring protein molecule, "amino acid sequence" and like terms are not necessarily limited to the complete native amino acid sequence associated with the recited protein molecule.

[43] "Amplification" indicates the production of additional copies of something, such as a nucleic acid sequence. Amplification can be generally carried out using polymerase chain reaction (PCR) technologies or other technologies such as the cycling probe reaction (CPR) that are well known in the art. *See, e.g.,* Dieffenbach, C. W. and G. S. Dveksler, PCR Primer, a Laboratory Manual, pp.1-5, Cold Spring Harbor Press, Plainview, N.Y. (1995); U.S. Patents Nos. 5,660,988, 5,731,146 and 6,136,533.

[44] "Amplification primers" are oligonucleotides such as natural, analog or artificially created nucleotides that can serve as the basis for the amplification of a selected nucleic acid sequence. They include, for example, both PCR primers and ligase chain reaction oligonucleotides.

[45] "Analog" or "variant" indicates a GPCR or antigenic peptide that has been modified by deletion, addition, modification, or substitution of one or more amino acid residues compared to the wild-type sequence. Analogs encompass allelic and polymorphic variants, and also muteins and fusion proteins that comprise all or a significant part of such GPCR, *e.g.,* covalently linked via side-chain group or terminal residue to a different protein, polypeptide, or moiety (fusion partner). Variants of a particular GPCR protein refer to an amino acid sequence that is altered by one or more amino acids, for example by one or more amino acid substitution, insertion, deletion or modification, or proteins with or without associated native-pattern glycosylation. The variant may have "conservative" changes. Such "conservative" changes generally are well known in the art and readily determinable for a particular GPCR in view of the present application. Conservative changes include, for example, substitutions where a substituted amino acid has similar structural or chemical

properties to the amino acid it replaced (*e.g.*, negatively charged amino acids include aspartic acid and glutamic acid; positively charged amino acids include lysine, arginine, histidine, asparagine, and glutamine; amino acids containing sulfur include methionine and cysteine; polar hydroxy amino acids include serine, threonine, and tyrosine; large hydrophobic amino acids include phenylalanine and tryptophan; small hydrophobic amino acids include alanine, leucine, isoleucine, and valine). A variant may also have "nonconservative" changes which means that the replacement amino acid provides some substantial change in the amino sequence.

[46] A variant preferably retains at least about 90% identity, and more preferably at least about 95% identity. Within certain embodiments, such variants contain alterations such that the ability of the variant to induce an immunogenic response is not substantially eliminated; in some embodiments the ability to an immunogenic response is not substantially diminished. Modifications of amino acid residues may include but are not limited to aliphatic esters or amides of the carboxyl terminus or of residues containing carboxyl side chains, O-acyl derivatives of hydroxyl group-containing residues, and N-acyl derivatives of the amino-terminal amino acid or amino-group containing residues, *e.g.*, lysine or arginine. Guidance in determining which and how many amino acid residues may be substituted, inserted, deleted or modified without diminishing immunological or biological activity may be found in view of the present application using any of a variety of methods and computer programs known in the art, for example, DNASTAR software. Properties of a variant may generally be evaluated by assaying the reactivity of the variant with, for example, antibodies as described herein or evaluating a biological activity characteristic of the native protein as described herein or as known in the art in view of the present application. Certain polynucleotide variants are capable of hybridizing under appropriately stringent conditions to a naturally occurring DNA sequence encoding a particular GPCR protein (or a complementary sequence). Such hybridizing nucleic acid sequences are also within the scope of this invention.

[47] "Antagonist" refers to a molecule which interacts with a particular GPCR, for example by binding to the particular GPCR, and prevents, inactivates, decreases or shortens the amount or the duration of the effect of the biological activity of the GPCR. Antagonists include proteins, nucleic acids, carbohydrates, antibodies, or any other molecules that so affect the GPCR. Antagonists can be identified, for example, using appropriate screens

corresponding to those described for agonists above and elsewhere herein or as would be apparent to those skilled in the art in view of the present application.

[48] "Antibody" indicates one type of binding partner, typically encoded by an immunoglobulin gene or immunoglobulin genes, and refers to, for example, intact
5 monoclonal antibodies (including agonist and antagonist antibodies), polyclonal antibodies, phage display antibodies, and multispecific antibodies (*e.g.*, bispecific antibodies) formed, for example, from at least two intact antibodies. Antibody also refers to fragments thereof, which comprise a portion of an intact antibody, generally the antigen-binding or variable region of the intact antibody that are capable of binding the epitopic determinant. Examples
10 of antibody fragments include Fab, Fab', F(ab')₂, and Fv fragments, diabodies, linear antibodies, single-chain antibody molecules, and multispecific antibodies formed from antibody fragments. See US Patent No. 6,214,984. Antibody fragments may be synthesized by digestion of an intact antibody or synthesized *de novo* either chemically or utilizing recombinant DNA technology. Antibodies according to the present invention have at least
15 one of adequate specificity, affinity and capacity to perform the activities desired for the antibodies. Antibodies can, for example, be monoclonal, polyclonal, or combinatorial. Antibodies that bind GPCR polypeptides can be prepared using intact polypeptides or using fragments containing small peptides of interest as the immunizing antigen. The polypeptide or oligopeptide used to immunize an animal (*e.g.*, a mouse, a rat, or a rabbit) can be derived
20 from the translation of RNA, or synthesized chemically, and can be conjugated to a carrier protein if desired. Commonly used carriers that are chemically coupled to peptides include bovine serum albumin, thyroglobulin, and keyhole limpet hemocyanin (KLH). The coupled peptide is then used to immunize the animal.

[49] "Antigenic determinant" refers to the antigen recognition site on an antigen (*i.e.*,
25 epitope). Such antigenic determinant may also be immunogenic.

[50] "Antisense" refers to any composition containing a nucleic acid sequence that is complementary to a specific nucleic acid sequence. "Antisense strand" refers to a nucleic acid strand that is complementary to the "sense" strand. Antisense molecules may be produced by any method including transcription or synthesis including synthesis by ligating
30 the gene(s) of interest in a reverse orientation to a desired promoter that permits the synthesis of a complementary strand. Once introduced into a cell, the complementary nucleotides can combine with natural sequences produced by the cell to form duplexes and to block either

transcription or translation. The designation "negative" can refer to the antisense strand, and the designation "positive" can refer to the sense strand.

[51] "Biologically active" or "biologically functional," when referring to an antigenic peptide, indicates that the antigenic peptide induces an immunogenic response specific for the antigenic peptide and thus for the GPCR from which it was obtained. A variant, fragment, etc., of an antigenic peptide is "biologically active" or "biologically functional" if the ability to induce the specific immunogenic response is not substantially diminished. The term "not substantially diminished" means retaining a functionality that is at least about 90% of the functionality of the native antigenic peptide. Appropriate assays designed to evaluate such functionality may be designed based on existing assays known in the art in view of the present application, or on the representative assays provided herein.

[52] "Annotation" refers to the provision of helpful or identifying information about a GPCR or other open reading frame (ORF), such as locus name, key words, and Medline references.

[53] "BLAST" refers to the Basic Local Alignment Search Tool, which is a technique for detecting ungapped sub-sequences that match a given query sequence. BLAST can be used as a preliminary step for detecting ORF boundaries.

[54] "BLASTP" refers to a BLAST program that compares an amino acid query sequence against a protein sequence database.

[55] "BLASTX" refers to a BLAST program that compares the six-frame conceptual translation products of a nucleotide query sequence (both strands) against a protein sequence database. BLASTX can be used to create a sub-database of ORFs which may exist on a contig, and to identify the best match between one of these ORFs and a sequence in an external database.

[56] "Buffer" refers to a component in a solution to provide a buffered solution that resists changes in pH by the action of its acid-base conjugate components.

[57] "CDS" refers to the GenBank DNA sequence entry for coding sequence. A coding sequence is a sub-sequence of a DNA sequence that is surmised to encode a gene. A complete gene coding sequence begins with an "ATG" and ends with a stop codon.

[58] "Clone" in molecular biology refers to a vector carrying an insert DNA sequence.

[59] "Cloning" in molecular biology refers to a recombinant DNA technique used to produce multiple, up to millions or more, copies of a DNA sequence. The DNA sequence is

inserted into a small carrier or vector (e.g., plasmid, bacteriophage, or virus) and inserted into a host cell for amplification or expression.

[60] "Cluster" refers to a group of ORFs related to one another by sequence homology. Clusters are generally determined by a specified degree of homology and overlap (e.g., a stringency).

[61] "Comparison window" indicates a segment of any one of the number of contiguous positions selected from the group consisting of from 20 to 600, usually about 50 to about 200, more usually about 100 to about 150 in which a sequence may be compared to a reference sequence of the same number of contiguous positions after the two sequences are aligned to enhance sequence similarity. Methods of alignment of sequences for comparison will be readily apparent to a person of ordinary skill in the art in view of the present application.

[62] "Complementary" or "complementarity" refers to the natural binding of polynucleotides by base pairing. For example, the sequence "A-G-T" binds to the complementary sequence "T-C-A." Complementarity between two single-stranded molecules may be "partial," such that only some of the nucleic acids bind, or it may be "complete," such that all of the nucleotides of at least one of the single-stranded molecules binds to corresponding nucleotides of the other single-stranded molecule. The degree of complementarity between nucleic acid strands has significant effects on the efficiency and strength of the hybridization between the nucleic acid strands. This can be of particular importance in amplification reactions, which can depend upon binding between nucleic acids strands, and in the design and use of peptide nucleic acid (PNA) molecules.

[63] "Complex," or "aggregate," indicates a dimer or multimer formed between at least two proteins or other macromolecules, for example a GPCR and its ligand.

[64] "Composition" indicates a combination of multiple substances into a mixture.

[65] "Composition comprising a given amino acid sequence" refers broadly to any composition containing the given amino acid sequence. The composition may comprise a dry formulation, an aqueous solution, or a sterile composition.

[66] "Consensus sequence" refers to the sequence that reflects the most common choice of base or amino acid at each position from a series of related DNA, RNA, or protein sequences. Areas of particularly good agreement often represent conserved functional domains. The generation of consensus sequences has typically been subjected to intensive mathematical analysis.

- [67] "Conservative changes" to an amino acid sequence, see Analog.
- [68] "Deletion" refers to a change in the amino acid or nucleotide sequence that results in the absence of one or more amino acid residues or nucleotides.
- [69] "Derivative" refers to chemical modification of an antigenic peptide, or of an antibody specific for and created from the antigenic peptide. A derivative peptide can be modified, for example, by glycosylation or pegylation.
- [70] "Diabodies" refers to one type of antibody comprising small antibody fragments with two antigen-binding sites, which fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) on the same polypeptide chain (V_H - V_L). By using a linker that is too short to allow pairing between the two domains on the same chain, the domains pair with the complementary domains of another chain and create two antigen-binding sites. Diabodies are described, for example, in EP 404,097; WO 93/11161; and Holliger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993).
- [71] "Database" refers to a structured format for organizing and maintaining information or data, a collection of data records, in a computer-readable form that can be rapidly and easily retrieved. A database is typically stored in a computer-readable memory. Records may comprise web pages, graphics, audio files, text files, or links. Records may or may not be further broken into fields. Database records are usually indexed and come with a search interface to find records of interest.
- [72] "E-value" refers to a result of a FASTA analysis. The number indicates the probability that a match between two sequences is due to random chance.
- [73] "Expression vector" is a specialized vector constructed so that the gene inserted in the vector can be expressed in the cytoplasm of a host cell.
- [74] "FASTA" refers to a modular set of sequence comparison programs used to compare an amino acid or DNA sequence against all entries in a sequence database. FASTA was written by Professor William Pearson of the University of Virginia Department of Biochemistry. The program uses the rapid sequence algorithm described by Lipman and Pearson (1988) and the Smith-Waterman sequence alignment protocol. FASTA performs a protein to protein comparison.
- [75] "FASTX" refers to a module of the FASTA protocol used to define optimal ORF boundaries while searching for genes. FASTX uses a nucleotide to protein sequence comparison.

[76] "Fragment," see Portion.

[77] "GenBank" refers to a family of public databases comprising nucleic acid and amino acid sequence information, including the GenPept bacterial peptide database.

[78] "Gene" refers to the basic unit of heredity that carries the genetic information for a
5 given RNA or protein molecule. A gene is composed of a contiguous stretch of DNA and contains a coding region that is flanked on each end by regions that are transcribed but not translated. A gene is a segment of DNA involved in producing a biologically active or biologically functional polypeptide chain.

[79] "Heterologous" indicates a nucleic acid that comprises two or more subsequences
10 that are not found in the same relationship to each other in nature. For instance, the nucleic acid is typically recombinantly produced, having two or more sequences from unrelated genes arranged to make a new functional nucleic acid, *e.g.*, a promoter from one source and a coding region from another source. Similarly, a heterologous protein indicates that the protein comprises two or more subsequences that are not found in the same relationship to
15 each other in nature (*e.g.*, a fusion protein).

[80] "Hit Threshold" refers to a pre-set E-value or P-value for evaluating sequence matches. For example, this value can be set at $1e-6$ for finding genes; and at $1e-15$ for clustering genes.

[81] "Homology" refers to a degree of complementarity. There may be partial homology
20 or complete homology. The word "identity" may substitute for the word "homology." A partially complementary sequence that at least partially, and substantially, inhibits a corresponding sequence from hybridizing to a target nucleic acid is referred to as "substantially homologous." The inhibition of hybridization of the completely complementary sequence to the target sequence may be examined using a hybridization assay
25 (*e.g.*, Southern or Northern blot, *in situ* hybridization, solution hybridization) under conditions of reduced stringency. A substantially homologous sequence or hybridization probe will compete for and inhibit the binding of a completely homologous sequence to the target sequence under stringency conditions that inhibit non-specific binding but permit specific binding. The absence of non-specific binding may be tested by the use of a second
30 target sequence which lacks even a partial degree of complementarity (*e.g.*, less than about 30% homology or identity). In the absence of non-specific binding, the substantially

homologous sequence or probe will not hybridize to the second, non-complementary target sequence.

[82] **"Humanized antibody"** refers to antibody molecules in which the amino acid sequence in the non-antigen-binding regions has been altered so that the antibody more closely resembles a human antibody, and still retains its original binding ability. Typically, humanized antibodies are human immunoglobulins (recipient antibody) in which residues from a complementarity-determining region (CDR) of the recipient are replaced by residues from a CDR of a non-human species (donor antibody) such as mouse, rat or rabbit having the desired specificity, affinity, and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Furthermore, humanized antibodies may comprise residues that are found neither in the recipient antibody nor in the imported CDR or framework sequences. These modifications are typically made to further refine and optimize antibody performance. In general, the humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework (FR) regions are those of a human immunoglobulin sequence. The humanized antibody optimally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin. For further details see, *e.g.*, Jones et al., *Nature*, 321:522-525 (1986); Reichmann et al., *Nature*, 332:323-329 (1988); and, Presta, *Curr. Op. Struct. Biol.*, 2:593-596 (1992).

[83] **"Identity,"** see Homology.

[84] **"Immunocytochemistry"** refers to the use of immunologic methods, including a specific antibody, to study cell constituents.

25 [85] **"Immunohistochemistry"** refers to the use of immunologic methods, including a specific antibody, to study specific antigens in tissue slices.

[86] **"Immunolocalization"** refers to the use of immunologic methods, including a specific antibody, to locate molecules or structures within cells or tissues.

30 [87] **"Immunologically active"** refers to the capability of a natural, recombinant, or synthetic GPCR, or any immunogenic fragment thereof, to induce a specific immune response in appropriate animals or cells and to bind with specific antibodies. A polypeptide is "immunologically active" if it is recognized by (*e.g.*, specifically bound by) a B-cell or T-

cell surface antigen receptor. Immunological activity may generally be assessed using well known techniques, such as those summarized in Paul, Fundamental Immunology, 3rd ed., 243-247, Raven Press (1993) and references cited therein. Such techniques include screening polypeptides derived from the native polypeptide for the ability to react with antigen-specific antisera or T-cell lines or clones, which may be prepared in view of the present application using well known techniques. Preferably, an immunologically active portion of a GPCR protein reacts with such antisera or T-cells at a level that is not substantially lower than the reactivity of the full-length polypeptide (*e.g.*, in an ELISA or T-cell reactivity assay). Such screens may generally be performed using methods well known to those of ordinary skill in the art in view of the present application, such as those described in Harlow and Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Press (1988). B-cell and T-cell epitopes may also be predicted via computer analysis.

[88] "Immune response" refers to any of the body's immunologic reactions to an antigen such as antibody formation, cellular immunity, hypersensitivity, or immunological tolerance.

[89] "Insertion" and "addition" when referring to a change in a nucleotide or amino sequence indicate the addition of one or more nucleotides or amino acid residues, respectively, to the sequence.

[90] "*In situ* hybridization" refers to use of a nucleic acid probe, typically a DNA or RNA probe, to detect the presence of a DNA or RNA sequence in target cells such as cloned bacterial cells, cultured eukaryotic cells, or tissue samples. *In situ* hybridization can also be used for locating genes on chromosomes. The process can be performed by preparing a microscope slide with cells in metaphase of mitosis, then treating slide with a weak base to denature the DNA. Next, pour radioactively labeled probe onto the slide under hybridizing conditions, expose the slide to a photographic emulsion for a suitable period such as a few days or weeks, then develop the emulsion.

[91] "Isoform" refers to different forms of a protein that may be produced from different genes or from the same gene by alternative RNA splicing.

[92] "Isolated" generally means that the material is removed from its original environment (*e.g.*, the natural environment if it is naturally occurring).

[93] "Library" refers physically to a pool of nucleic acid fragments that has been propagated in a cloning vector. Library can also refer to an electronic collection of genomic

or proteomic sequence data, including raw sequences, contigs, ORFs and loci from a specific organism.

[94] **"Ligand"** refers to an ion or molecule that binds with another molecule, such as a GPCR, to form a macromolecule such as a receptor-ligand complex. An "endogenous
5 ligand" refers to a native ligand that binds to the receptor of the GPCR and modulates biological activity or functionality of the GPCR in its native environment. A "specific ligand" is a ligand able to bind to a particular GPCR and modulate the biological activity or functionality of the particular GPCR; an endogenous ligand is one example of a specific ligand.

10 [95] **"Microarray"** refers to an array of distinct nucleic acid or amino acid molecules arrayed on a substrate, such as paper, nylon or any other type of membrane, filter, chip, glass slide, or any other suitable solid support. Microarrays can also refer to tissue microarrays, composed of small tissue pieces arranged on a slide. U.S. Pat. No. 5,143,854 and PCT Patent Publication Nos. WO 90/15070 and 92/10092.

15 [96] **"Mimetic"** refers to a molecule, *e.g.*, a peptide or non-peptide agent, such as a small molecule, that is able to perform the same biological activity as a certain biologically active agent. For example, some mimetics are molecules comprising the same biological function or activity as the particular GPCR. The structure of the mimetic can be developed from knowledge of the structure of the particular GPCR or portions thereof. For appropriate
20 mimetics, the mimetic is able to effect some or all of the actions of a given antigenic peptide or antibodies against the antigenic peptide. Such mimetics can be made, in view of the present application, using techniques well known in the art, *see, e.g.*, U.S. Patent Nos. 6,197,752; 6,093,697; 6,207,643; 5,849,323, and can be included in the various processes, methods, and systems, etc., described herein, such as databases, binding partner assays,
25 probes, medicaments, and therapeutics.

[97] **"Modulate"** refers to controllably changing the activity of a substance or other item, such as the biological activity of a GPCR, antigenic peptide or corresponding antibody. For example, modulation may cause an increase or a decrease in protein activity, binding characteristics, or other biological, functional, or immunological properties of the GPCR.

30 [98] **"Monoclonal antibody"** refers to an antibody obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present

in minor amounts. Monoclonal antibodies include "chimeric" antibodies (immunoglobulins) in which a portion of the heavy or light chain is identical with or homologous to corresponding sequences in antibodies derived from a particular species or belonging to a particular antibody class or subclass, while the remainder of the chain(s) is identical with or
5 homologous to corresponding sequences in antibodies derived from another species or belonging to another antibody class or subclass, as well as fragments of such antibodies, so long as they exhibit the desired biological activity. U.S. Pat. No. 4,816,567; Morrison et al., P.N.A.S. USA, 81:6851-6855 (1984). Monoclonal antibodies are highly specific, being directed against a single antigenic site. As a matter of distinction, polyclonal antibody
10 preparations typically include different antibodies directed against different determinants (epitopes) of a target antigen whereas each monoclonal antibody is directed against a single determinant on the antigen. Monoclonal antibodies can be synthesized by hybridoma culture, uncontaminated by other immunoglobulins. For example, the monoclonal antibodies to be used in accordance with the present invention may be made by the hybridoma method first
15 described by Kohler and Milstein, Nature, 256:495 (1975), or may be made by recombinant DNA methods. See, e.g., U.S. Pat. No. 4,816,567. Monoclonal antibodies may also be isolated from phage antibody libraries using the techniques described in Clackson et al., Nature, 352:624-628 (1991), and Marks et al., J. Mol. Biol., 222:581-597 (1991), for example. The modifier "monoclonal" indicates the character of the antibody as being
20 obtained from a substantially homogeneous population of antibodies, and is not to be construed as requiring production of the antibody by any particular method.

[99] "Nonconservative" changes to an amino acid sequence, see Analog.

[100] "Northern blotting" or "Northern analysis" refers to a method used to detect specific RNA sequences. For example, the process can be performed by electrophoresing
25 RNA in a denaturing agarose gel, transferring the gel onto a membrane, and hybridizing with a labeled RNA or DNA probe.

[101] "Nucleic acid sequence" refers to a polymer comprising a string of "nucleic acids" such as an oligonucleotide, or a polynucleotide or fragment thereof. The nucleic acid sequence can be from DNA or RNA of genomic or synthetic origin, may be single-stranded
30 or double-stranded, and may represent the sense or the antisense strand. A nucleic acid sequence can also be a PNA or a DNA-like or RNA-like material. Unless stated otherwise,

the term encompasses nucleic acids containing known analogues or mimetics of natural nucleotides that have similar binding properties as the reference nucleic acid.

[102] **"Oligonucleotide"** refers to a nucleic acid sequence, generally between 6 nucleotides to 60 nucleotides, preferably about 15 to 30 nucleotides, and most preferably
5 about 20 to 25 nucleotides, that can, for example, be used in PCR or other nucleic acid amplification or in a hybridization assay or microarray. "Oligonucleotide" includes "amplimers," "primers," "oligomers," and "probes," as these terms are commonly defined in the art. Oligonucleotides can be chemically synthesized. Such synthetic oligonucleotides may have no 5' phosphate and if so will not ligate to another oligonucleotide without adding a
10 phosphate, typically by using an ATP in the presence of a kinase. A synthetic oligonucleotide will ligate to a fragment that has not been dephosphorylated.

[103] **"Operably linked"** or **"operably connected"** indicates that one element of an apparatus, system, or method, etc., is connected to another element of the apparatus, system, or method, etc., such that the two elements are able to perform their intended purposes. For
15 example, when a promoter is linked to a polynucleotide to allow transcription of the polynucleotide, it is "operably linked" to the polynucleotide.

[104] **"Orphan receptor"** refers to a receptor for which the endogenous ligand or other ligands inducing biological activity are not known.

[105] **"PCR"** or **"polymerase chain reaction"** refers to an *in vitro* method that uses
20 oligonucleotide primers, enzymes, and a series of repetitive temperature cycles to generate millions of copies of a nucleic acid, typically DNA, from an original specimen of a specific DNA sequence, which specimen may be present only in a trace amount.

[106] **"Plasmids"** refers to extrachromosomal genetic elements composed of DNA or RNA found in both eukaryotic and prokaryotic cells that can propagate themselves
25 autonomously in cells. Plasmids can be used as carriers or vectors to clone DNA molecules. They are designated by a lower case p preceded or followed by capital letters or numbers. The starting plasmids herein are either commercially available, publicly available on an unrestricted basis, or can be constructed from available plasmids in accord with published procedures. In addition, equivalent plasmids to those described are known in the art and will
30 be apparent to the ordinarily skilled artisan in view of the present application.

[107] "Polynucleotide encoding a polypeptide" indicates a polynucleotide that includes only the coding sequence for the polypeptide as well as polynucleotides that include additional coding or non-coding sequence.

[108] "Portion" or "fragment" with regard to a protein (as in "a portion of a given protein") refers to parts of that protein, a subsequence of the complete amino acid sequence of the receptor containing at least about 8, usually at least about 12, more typically at least about 20, and commonly at least about 30 or more contiguous amino acid residues, up to the entire amino acid sequence minus one amino acid. Thus, a protein "comprising at least a portion of the amino acid sequence of SEQ ID NO:XX" or a protein "comprising at least a portion of the amino acid sequence of a particular GPCR" encompasses the full-length protein and fragments thereof. A portion or fragment of a nucleic acid refers to nucleic acid sequences that are greater than about 12 nucleotides in length, and typically at least about 60 or 100 nucleotides, generally at least about 1000 nucleotides, or at least about 10,000 nucleotides in length, up to the entire nucleic acid sequence minus one nucleic acid.

[109] "P-value" is a statistical term used to indicate the probability that an event is due to random chance. When used in reference to a result of BLAST searches, the number indicates the probability that a match between two sequences is due to random chance.

[110] "Receptor" refers to a molecular structure, typically within a cell or on a cell surface, that selectively binds a specific substance (a ligand) and a specific physiologic effect that accompanies the binding. GPCRs are a type of cell-surface receptor, which means a protein in, on, or traversing the cell membrane (in the case of GPCRs, traversing the cell membrane) that recognizes and binds to specific molecules in the surrounding fluid. The binding to a receptor may serve to transport molecules into the cell's interior or to signal the cell to respond in some way.

[111] "Recombinant" refers to both a method of production and a structure. Some recombinant nucleic acids and proteins are made by the use of recombinant DNA techniques that involve human intervention, either in manipulation or selection. Others are made by fusing two fragments that are not naturally contiguous to each other. Engineered vectors are encompassed, as well as nucleic acids comprising sequences derived using any synthetic oligonucleotide process.

[112] "Sample" is used in its usual broad sense. For example, a biological sample suspected of containing nucleic acids encoding the GPCR, or fragments thereof, or the GPCR

itself, may comprise a bodily fluid, an extract from a cell, chromosome, organelle, or membrane from a cell; a cell; genomic DNA, RNA, or cDNA (in solution or bound to a solid support); a tissue; a tissue print, and the like. Biological sample refers to samples from a healthy individual as well as to samples from a subject suspected of having or susceptible to having, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[113] "Second messengers" refer to intracellular signaling molecules such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . Second messengers, in turn, alter the

activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal.

[114] "Southern blotting" refers to a method for detecting specific DNA sequences via hybridization. For example, a DNA sample can be electrophoresed in a denaturing agarose gel, transferred onto a membrane, and hybridized with a complementary nucleic acid probe. "Southern" when used in reference to a database indicates an electronic analog of the laboratory technique, which analysis can be used to identify libraries in which a given DNA sequence, such as a gene, EST, or ORF is present. The terms "Northern" and "Western" likewise can be used for electronic analogs to the respective laboratory techniques described above.

[115] "Specific binding" or "specifically binding" refers to an interaction between protein or peptide and a certain substance, such as its specific ligand or antibody, and in some cases its agonists or antagonists. The interaction is dependent upon the presence of a particular structure of the protein recognized by the binding molecule (*e.g.*, the antigenic determinant or epitope). For example, if an antibody specifically binds epitope "A," the presence of a polypeptide containing epitope A or the presence of free unlabeled epitope A will reduce the amount of labeled epitope A that binds to the antibody in a reaction containing free labeled epitope A and the antibody. Conversely, the presence of a polypeptide that does not contain epitope A will not reduce the amount of labeled epitope A that binds to the antibody. Highly specific binding indicates that the protein or peptide binds to its particular ligand, antibody, etc., and does not bind in a significant amount to other proteins present in the sample. Typically, a specific or selective reaction will be at least twice the background signal or noise and more typically more than 10 to 100 times the background signal or noise.

[116] "Stringent conditions" refer to conditions that permit hybridization between complementary polynucleotide sequences. Suitably stringent conditions can be defined by, for example, the concentrations of salt or formamide in the prehybridization and hybridization solutions, or by the hybridization temperature. Stringency can be increased by reducing the concentration of salt, increasing the concentration of formamide, or raising the hybridization temperature. Stringent conditions are dependent upon the type of probe as well as the length of the probe and the GC content of the probe. "Stringent conditions" typically

occur within a range from about $T_m - 5^\circ\text{C}$ (5°C below the melting temperature (T_m) of the probe) to about $T_m - 20 - 25^\circ\text{C}$ for a cRNA probe and to about $T_m - 15^\circ\text{C}$ for an oligonucleotide probe. **"Highly stringent conditions"** refers to conditions under which a probe will hybridize to its target sequence, typically in a complex mixture of nucleic acid sequences, but will not substantially hybridize to other sequences. One example of high stringency conditions for a cRNA probe that is 1,000 nucleotides in length and has a GC content of about 60% is about $55 - 65^\circ\text{C}$ in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA. One example of low stringency conditions for the same probe in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA would be $30 - 35^\circ\text{C}$. **"Very highly stringent conditions"** indicates that there must be complete identity between the sequences. The temperature range corresponding to a particular level of stringency can be narrowed further by calculating the purine to pyrimidine ratio of the nucleic acid of interest and adjusting the temperature accordingly. Variations on and modifications of the above ranges and conditions will be readily appreciated by those of skill in the art in view of the present application. As will be understood by those of skill in the art in view of the present application, the stringency of hybridization can be altered to identify or detect identical or related polynucleotide sequences. One guide for nucleic acid hybridization is Tijssen, Laboratory Techniques in Biochemistry and Molecular Biology-v.24 Hybridization with Nucleic Acid Probes, Part I "Overview of principles of hybridization and the strategy of nucleic acid assays" (New York: Elsevier 1993).

[117] **"Substantially purified"** refers to nucleic acid or amino acid sequences that are removed from their natural environment and are separated from other components from such natural environment, and are at least about 60% free, preferably about 75% or 85% free, and most preferably about 90%, 95% or 99% free from such other components with which they are naturally associated. Substantially purified preferably indicates a substantially homogeneous state and can be in either a dry or aqueous solution or other composition as desired. Purity and homogeneity can be assayed by standard methods, for example on a mass or molar basis, using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography.

[118] "Substitution" when referring to a change in a nucleotide or amino sequence indicates the replacement of one or more nucleotides or amino acids by different nucleotides or amino acids, respectively.

[119] "Variant," see Analog.

5 [120] "Western blotting" or "Western analysis" refers to a method for detecting specific protein sequences. For example, the process can be performed by electrophoresing a protein mixture in a denaturing agarose or acrylamide gel, transferring the mixture onto a membrane, and incubating it with an antibody raised against the protein of interest.

[121] Other terms and phrases are defined in other portions of this application.

10

C. SELECTION OF DESIRED ANTIGENIC PEPTIDES FOR GPCRs AND OTHER POLYPEPTIDES

[122] The present invention provides improved antigenic peptides, for example as set forth in Figure 2, SEQ ID NOS. 692-2292, and improved methods of identifying such
15 antigenic peptides from known or publicly available sequences of polypeptides or proteins, i.e., from a candidate polypeptide sequence. Polypeptide and protein are used in their traditional sense to indicate lengthy amino acid molecules, whereas the antigenic peptide has a length significantly less than the length of the corresponding polypeptide or protein such that the antigenic peptide is capable of providing significantly improved antigenicity relative
20 to the corresponding polypeptide or protein, typically improved specificity, affinity or avidity. The candidate polypeptide can be, for example, a human protein or polypeptide, a naturally occurring protein or polypeptide or a synthetic or recombinant protein or polypeptide.

[123] The antigenic peptides are typically 5 to about 100 amino acids in length, preferably
25 6 to about 50 amino acids, and further preferably 7 to about 20 amino acids. The antigenic peptides include short antigenic amino acid sequences (i.e., peptides comprising only a portion of an antigenic sequence as set forth in Figure 2 or as identified using the methods described herein, plus an insignificant number of additional amino acids at one or both ends, where insignificant indicates that the extra amino acids do not substantially interfere with the
30 antigenicity of the antigenic peptide). Such short antigenic peptides can be identical to at least 5, 6, 7 or more consecutive amino acids of the sequences herein or identified using the methods described herein, or can have one or two (or more, with increasing length)

conservative amino acid substitution for antigenic peptides comprising more than 6 or 7 consecutive amino acids of the sequences herein or identified using the methods described herein. Antigenic peptides and sequences, and related antibodies and assays and the like, are discussed further elsewhere herein with regard to GPCRs, but such discussions applies to all antigenic peptides produced according to the methods herein, including proteins and polypeptides such as kinases, phosphatases and any other desired protein or polypeptide.

[124] The identification or selection methods comprise searching the candidate polypeptide sequence using a comparison window of the desired length, then selecting against or rejecting amino acid sequences of the length and having at least 1 characteristic selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, at least 5, 7, 8, or all of the characteristics are selected.

[125] The identification or selection methods can also comprise selecting against amino acid sequences having at least 5 consecutive amino acids that are identical to an alternative amino acid sequence from an alternative polypeptide, i.e., some polypeptide other than the candidate polypeptide from which the selected antigen was derived, that is different from the candidate polypeptide, posttranslational modification sites, or highly hydrophobic sequences, which indicates sequences adequately hydrophobic to be located in a lipid membrane such as a cellular membrane. The posttranslational modification sites can be phosphorylation or glycosylation sites.

[126] The methods can further comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence. Exemplary BLAST-type and FAST-type analyses are described above, including BLAST, BLASTP, BLASTX, FASTA, and FASTX.

D. GENERAL DISCUSSION OF ANTIGENIC PEPTIDES RELATED TO PARTICULAR GPCRS

[127] ANTIGENIC PEPTIDES GENERALLY:

[128] The present invention includes antigenic peptides able to induce specific immunogenic responses, and corresponding binding partners. Such antigenic peptides and

binding partners can be cloned, expressed, isolated, purified, and otherwise obtained or manipulated according to routine methods known in the art in view of the present application.

[129] The present invention further relates to antigenic peptides having an amino acid sequence from a particular GPCR, including analogs, mimetics, fragments, derivatives, and the like of such antigenic peptides. See SEQ ID NOS. 1-2292, Figures 1-3. The antigenic peptides may be recombinant, natural or synthetic. The antigenic peptides include (i) antigenic peptides in which one or more of the amino acid residues are substituted with a conserved or non-conserved amino acid residue (preferably a conserved amino acid residue) and such substituted amino acid residue may or may not be one encoded by the genetic code, (ii) antigenic peptides in which one or more of the amino acid residues includes a substituent group, (iii) antigenic peptides in which the mature polypeptide is complexed (e.g., fused or otherwise bonded) with another compound, such as a compound to increase the half-life of the polypeptide (for example, polyethylene glycol), and (iv) antigenic peptides in which additional amino acids are fused to the antigenic peptide. Preparing and using such analogs, etc., are within the scope of those skilled in the art in view of the present application. The antigenic peptides additionally include antigenic peptides that have at least about 90% identity to the given antigenic peptide, and preferably at least about 95% identity to the antigenic peptide. The antigenic peptides additionally include antigenic peptides that contain at least five, six, seven or more consecutive amino acids that are identical to the given antigenic peptide, as well as antigenic peptides that contain at least six, seven, eight or more consecutive amino acids that are identical to the given antigenic except for one or two conservative changes within this such stretch of amino acids. The antigenic peptides of the present invention can be produced by peptide synthesis.

[130] EXPRESSION PROFILES BASED ON PROTEINS:

[131] An expression profile of a particular GPCR in one or more tissues can be made using antibodies or other binding partners produced using the antigenic peptides herein, then using traditional approaches such as Western blotting, immunohistochemistry analysis, protein array, ligand-binding studies, radioimmunoassay (RIA), and high performance liquid chromatography (HPLC), and immunohistochemistry analysis. H&E staining and other analyses can be used in combination with such immunologically-based analyses.

[132] SCREENING FOR ACTIVITY:

[133] The activity or functionality of an antigenic peptide can be measured using any of a variety of assays known in the art. Similarly, the specificity or affinity of an antibody or other binding partner made using the antigenic peptide can be measured using any of a variety of assays known in the art

- 5 [134] The activity or functionality of a particular GPCR may be measured using any of a variety of functional assays in which activation of the receptor in question results in an observable change in the level of some second messenger system, including but not limited to adenylyl cyclase, calcium mobilization, arachidonic acid release, ion channel activity, inositol phospholipid hydrolysis, or guanylyl cyclase. Heterologous expression systems utilizing
10 appropriate host cells to express the nucleic acid of the subject invention are used to obtain the desired second messenger coupling. Receptor activity may also be assayed in an oocyte expression system.

[135] **PROTEIN PURIFICATION:**

- [136] The antigenic peptides and proteins or polypeptides containing them can be purified
15 by standard methods, including but not limited to salt or alcohol precipitation, preparative disc-gel electrophoresis, isoelectric focusing, high pressure liquid chromatography (HPLC), reversed-phase HPLC, gel filtration, cation and anion exchange, partition chromatography, and countercurrent distribution. Suitable purification methods will be readily apparent to those skilled in the art in view of the present application and are disclosed, *e.g.*, in Guide to
20 Protein Purification, Methods in Enzymology, Vol. 182, M. Deutscher, Ed., Academic Press, New York, NY (1990). Purification steps can be followed as part of carrying out assays for ligand binding activity. Particularly where a particular GPCR is being isolated from a cellular or tissue source, it is preferable to include one or more inhibitors of proteolytic enzymes in the assay system, such as phenylmethylsulfonyl fluoride (PMSF).

25

E. CERTAIN ASSAYS, ANTIBODIES, PROBES, THERAPEUTICS, AND
OTHER SYSTEMS AND ASPECTS, OF THE INVENTION

1. SYSTEMS AND METHODS FOR SCREENING FOR A
PARTICULAR GPCR OR ANTIGENIC PEPTIDE

- 30 [137] **SCREENING FOR ANTIGENIC PEPTIDES:**

[138] As noted elsewhere herein, the present invention provides antigenic peptides and antibodies that are specific for a particular GPCR. The invention also provides systems and

methods for using or detecting such peptides, and antibodies against such peptides or corresponding GPCRs in a sample. The assays are based on the detection of the antigenic peptides, typically as they are displayed by the particular GPCR, or the detection of antibodies produced against the particular antigenic peptides and corresponding GPCRs.

5 **[139] SCREENING FOR/WITH ANTIGENIC PEPTIDES:**

[140] Many assays are characterized by the ability of antigenic peptides for a particular GPCR to be bound by antibodies against them, and the ability of antibodies produced against such antigenic peptides to bind to antigens or epitopes of the particular GPCR in a sample. Some exemplary assays are described below and elsewhere herein.

10 **[141] LIST OF ASSAYS:**

[142] A variety of assays can detect antibodies that bind specifically to the desired protein in or from a sample, or detect a desired protein bound to one or more antibodies in or from the sample. Exemplary assays are described in detail in *Antibodies: A Laboratory Manual*, Harlow and Lane (eds.), Cold Spring Harbor Laboratory Press (1988). Representative
15 examples of such assays include: countercurrent immuno-electrophoresis (CIEP), radioimmunoassays, radioimmunoprecipitations, enzyme-linked immunosorbent assays (ELISA), dot blot assays, inhibition or competition assays, sandwich assays, immunostick (dip-stick) assays, simultaneous assays, immunochromatographic assays, immunofiltration assays, latex bead agglutination assays, immunofluorescent assays, biosensor assays, and
20 low-light detection assays. *See* U.S. Pat. Nos. 4,376,110 and 4,486,530; WO 94/25597; WO/25598.

[143] ENZYME-LINKED IMMUNOSORBENT ASSAYS (ELISA):

[144] One assay for the detection of a particular GPCR is a sandwich assay such as an enzyme-linked immunosorbent assay (ELISA). In one preferred embodiment, the ELISA
25 comprises the following steps: (1) coating the particular GPCR antigenic peptide onto a solid phase, (2) incubating a sample suspected of containing anti-particular GPCR antibodies with the antigenic peptide coated onto the solid phase under conditions that allow the formation of an antigen-antibody complex, (3) adding an anti-antibody (such as anti-IgG) conjugated with a label to be captured by the resulting antigen-antibody complex bound to the solid phase,
30 and (4) measuring the captured label and determining therefrom whether the sample contains anti-particular GPCR antibodies.

[145] IMMUNOFLUORESCENCE ASSAY:

[146] A fluorescent antibody test (FA-test) uses a fluorescently labeled antibody able to bind to one of the proteins of the invention. For detection, visual determinations are made by a technician using fluorescence microscopy, yielding a qualitative result. In one embodiment, this assay is used for the examination of tissue samples or histological sections.

5 [147] **BEAD AGGLUTINATION ASSAYS:**

[148] In latex bead agglutination assays, antibodies to one or more of the antigenic peptides of the present invention are conjugated to latex beads. The antibodies conjugated to the latex beads are then contacted with a sample under conditions permitting the antibodies to bind to desired proteins in the sample, if any. The results are then read visually, yielding a
10 qualitative result. In some embodiments, as with certain other assays, this format can be used in the field for on-site testing.

[149] **ENZYME IMMUNOASSAYS:**

[150] Enzyme immunoassays (EIA) include a number of different assays that can use the antibodies described in the present application. For example, a heterogeneous indirect EIA
15 uses a solid phase coupled with an antibody of the invention and an affinity purified, anti-IgG immunoglobulin preparation. The solid phase can be a polystyrene microtiter plate. The antibodies and immunoglobulin preparation are then contacted with the sample under conditions permitting antibody binding, which conditions are well known in the art. The results of such an assay can be read visually or using a device such as a spectrophotometer,
20 such as an ELISA plate reader, to yield a quantitative result. An alternative solid phase EIA format includes plastic-coated ferrous metal beads able to be moved during the procedures of the assay by means of a magnet. Yet another alternative is a low-light detection immunoassay format. In this highly sensitive format, the light emission produced by appropriately labeled bound antibodies are quantified automatically. Preferably, the reaction
25 is performed using microtiter plates.

[151] In an alternative embodiment, a radioactive tracer is substituted for the enzyme-mediated detection in an EIA to produce a radioimmunoassay (RIA).

[152] **SANDWICH ASSAY:**

[153] In a capture-antibody sandwich enzyme assay, the desired protein is bound between
30 an antibody attached to a solid phase, preferably a polystyrene microtiter plate, and a labeled antibody. The results can be measured, for example, using a spectrophotometer, such as an ELISA plate reader.

[154] SEQUENTIAL AND SIMULTANEOUS ASSAYS:

[155] In a sequential assay format, reagents are allowed to incubate with the capture antibody in a stepwise fashion. The test sample is first incubated with the capture antibody. Following a wash step, incubation with the labeled antibody occurs. In a simultaneous assay, the two incubation periods described in the sequential assay are combined. This eliminates one incubation period plus a wash step.

[156] IMMUNOSTICK (DIP-STICK) ASSAYS:

[157] A dipstick/immunostick format is essentially an immunoassay using a polystyrene paddle or dipstick instead of a polystyrene microtiter plate as the solid phase. Reagents are the same and the format can either be simultaneous or sequential.

[158] IMMUNOCHROMATOGRAPHIC ASSAYS:

[159] In a chromatographic strip test format, a capture antibody and a labeled antibody are dried onto a chromatographic strip, which typically comprises nitrocellulose or high porosity nylon bonded to cellulose acetate. The capture antibody is usually spray dried as a line at one end of the strip. At this end, there is an absorbent material that is in contact with the strip. At the other end of the strip, the labeled antibody is deposited in a manner that prevents it from being absorbed onto the membrane. Usually, the label attached to the antibody is a latex bead or colloidal gold. The assay may be initiated by applying the sample immediately in front of the labeled antibody.

[160] IMMUNOFILTRATION ASSAYS:

[161] Immunofiltration/immunoconcentration formats combine a large solid-phase surface with directional flow of sample/reagents, which concentrates and accelerates the binding of antigen to antibody. In an exemplary format, the test sample is preincubated with a labeled antibody, and then applied to a solid phase such as fiber filters, nitrocellulose membranes, or the like. The solid phase can also be precoated with latex or glass beads coated with capture antibody. Detection of analyte is the same as that in a standard immunoassay. The flow of sample/reagents can be modulated by either vacuum or the wicking action of an underlying absorbent material.

[162] BIOSENSOR ASSAYS:

[163] A threshold biosensor assay is a sensitive, instrumented assay amenable to screening large numbers of samples at low cost. In one embodiment, such an assay comprises the use of light-addressable potentiometric sensors wherein the reaction involves

the detection of a pH change due to binding of the desired protein by capture antibodies, bridging antibodies, and urease-conjugated antibodies. Upon binding, a pH change is effected that is measurable by translation into electrical potential (μ volts). The assay typically occurs in a very small reaction volume, and is very sensitive; the reported detection
5 limit of the assay is 1,000 molecules of urease per minute.

2. ANTIBODIES

[164] ANTIBODIES GENERATED AGAINST A PARTICULAR ANTIGENIC PEPTIDE AND ITS CORRESPONDING GPCR:

10 **[165]** Highly specific, high affinity or antibodies against a particular GPCR or other polypeptide can be generated using the antigenic peptides herein and using antibody generation techniques as described herein or elsewhere. The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can selectively detect the corresponding GPCR
15 in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected. The antibodies produced using the antigenic peptides of the present invention,
20 for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[166] The antibodies can be used to conduct immunohistochemistry and other analyses of a variety of tissue samples to determine expression of a particular GPCR in such tissues, for
25 diagnostic assays, and for other desired purposes. The specification will now discuss a variety of antibody types, methods, uses, etc.

[167] ANTIBODIES GENERALLY:

[168] In some embodiments, the present invention provides antibodies and other binding partners created using the antigenic peptides herein and directed to a particular GPCR from
30 which the antigenic peptides were derived. Compositions and uses for such antibodies are contemplated, including diagnostic, medicament, and therapeutic uses. Various diagnostic, medicament, and therapeutic uses for antibodies have been reviewed above and, for example,

in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.*, 53:189-204 (1990); Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)*, 50(8):901-909 (1990); and, U.S. Pat. No. 6,214,984.

[169] Recognized immunoglobulin genes include the kappa, lambda, alpha, gamma, delta, 5 epsilon, and mu constant region genes, as well as myriad immunoglobulin variable region genes. Light chains are classified as either kappa or lambda. Heavy chains are classified as gamma, mu, alpha, delta, or epsilon, which in turn define the immunoglobulin classes, IgG, IgM, IgA, IgD, and IgE, respectively. An exemplary immunoglobulin (antibody) structural unit comprises a tetramer. Each tetramer is composed of two identical pairs of antigenic 10 peptide chains, each pair having one "light" chain (about 25 kD) and one "heavy" chain (about 50-70 kD). The N-terminus of each chain defines a variable region of about 100 to 110 or more amino acids primarily responsible for antigen recognition. The terms variable light chain (V_L) and variable heavy chain (V_H) refer to these light and heavy chains respectively.

15 [170] **ANTI-IDIOTYPIC ANTIBODIES:**

[171] The present invention encompasses anti-idiotypic antibodies, including polyclonal and monoclonal anti-idiotypic antibodies, that are produced using the antibodies described herein as antigens. These anti-idiotypic antibodies are useful because they may mimic the structures of the antigenic peptides set forth herein.

20 [172] Techniques for producing antibodies, including antibody fragments, include the following.

a. Antibody Preparation

(i) Polyclonal Antibodies

25 [173] **ANTIBODY PREP - POLYCLONAL:**

[174] Polyclonal antibodies are generally raised in animals by multiple subcutaneous (sc) or intraperitoneal (ip) injections of the relevant antigen and an adjuvant. It may be useful to conjugate the relevant antigen to a protein that is immunogenic in the species to be immunized, *e.g.*, keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, or 30 soybean trypsin inhibitor, using a bifunctional or derivatizing agent, for example, maleimidobenzoyl sulfosuccinimide ester (conjugation through cysteine residues), N-

hydroxysuccinimide (through lysine residues), glutaraldehyde, succinic anhydride, SOCl_2 , or $\text{R}^1\text{N}=\text{C}=\text{NR}$, where R and R^1 are different alkyl groups.

[175] ANTIBODY PREP – ADJUVANTS (ALL ABS):

[176] Suitable adjuvants for the vaccination of animals for the production of polyclonal, monoclonal, and other antibodies include but are not limited to Adjuvant 65 (containing peanut oil, mannide monooleate, and aluminum monostearate); Freund's complete or incomplete adjuvant; mineral gels such as aluminum hydroxide, aluminum phosphate, and alum; surfactants such as hexadecylamine, octadecylamine, lysolecithin, dimethyldioctadecylammonium bromide, N,N-dioctadecyl-N',N'-bis(2-hydroxymethyl) propanediamine, methoxyhexadecylglycerol, and pluronic polyols; polyanions such as pyran, dextran sulfate, poly IC, polyacrylic acid, and carbopol; peptides such as muramyl dipeptide, dimethylglycine, tuftsin, stress proteins, core-containing proteins from a positive stranded RNA virus, *see* US Pat. No. 6,153,378; and, oil emulsions. The antigenic peptides could also be administered following incorporation into liposomes or other microcarriers.

[177] Information concerning adjuvants and various aspects of immunoassays are disclosed, *e.g.*, in the series by P. Tijssen, Practice and Theory of Enzyme Immunoassays, 3rd Edition (1987), Elsevier, New York. Other useful references covering methods for preparing polyclonal antisera include Microbiology, Hoeber Medical Division, Harper and Row (1969); Landsteiner, Specificity of Serological Reactions, Dover Publications, New York (1962); and, Williams, et al., Methods in Immunology and Immunochemistry, Vol. 1, Academic Press, New York (1967).

[178] Animals can be immunized against the antigen, immunogenic conjugates, or derivatives by combining 1 mg or 1 μg of the peptide or conjugate (for rabbits or mice, respectively) with 3 volumes of Freund's complete adjuvant and injecting the solution intradermally at multiple sites. One month later the animals are boosted with 1/5 to 1/10 the original amount of peptide or conjugate in Freund's complete adjuvant by subcutaneous injection at multiple sites. Seven to 14 days later the animals are bled and the serum is assayed for antibody titer. Animals are boosted until the titer plateaus. Preferably, the animal is boosted with the conjugate of the same antigen, but conjugated to a different protein or through a different cross-linking reagent. Conjugates also can be made in recombinant cell culture as protein fusions. In addition, aggregating agents such as alum can be suitably used to enhance the immune response.

(ii) Monoclonal Antibodies

[179] ANTIBODY PREP - MONOCLONAL:

[180] Monoclonal antibodies are obtained from a population of substantially
5 homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are
identical except for possible naturally occurring mutations that may be present in minor
amounts. For example, monoclonal antibodies can be made using the hybridoma method first
described by Kohler and Milstein, *Nature*, 256:495 (1975), or can be made by recombinant
DNA methods, or otherwise as desired.

10 **[181]** In the hybridoma method, a mouse, or other appropriate host animal, such as a
hamster, is immunized as described herein to elicit lymphocytes that produce or are capable
of producing antibodies that will bind specifically to the antigenic peptide used for
immunization. Alternatively, lymphocytes may be immunized *in vitro*. Lymphocytes then
are fused with myeloma cells using a suitable fusing agent, such as polyethylene glycol, to
15 form a hybridoma cell, Goding, *Monoclonal Antibodies: Principles and Practice*, pp. 59-103,
Academic Press (1986).

[182] The hybridoma cells thus prepared are seeded and grown in a suitable culture
medium that preferably contains one or more substances that inhibit the growth or survival of
the unfused, parental myeloma cells. For example, if the parental myeloma cells lack the
20 enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture
medium for the hybridomas typically will include hypoxanthine, aminopterin, and thymidine
(HAT medium), which substances prevent the growth of HGPRT-deficient cells.

[183] Preferred myeloma cells are those that fuse efficiently, support stable high-level
production of antibody by the selected antibody-producing cells, and are sensitive to a
25 medium such as HAT medium, for example murine myeloma lines, such as those derived
from MOPC-21 and MPC-11 mouse tumors available from the Salk Institute Cell
Distribution Center, San Diego, CA USA, and SP-2 cells available from the American Type
Culture Collection, Rockville, MD USA. Human myeloma and mouse-human
heteromyeloma cell lines have also been described for the production of human monoclonal
30 antibodies, Kozbor, *J. Immunol.*, 133:3001 (1984); Brodeur et al., *Monoclonal Antibody
Production Techniques and Applications*, pp. 51-63, Marcel Dekker, Inc., New York (1987).

[184] Culture medium in which hybridoma cells are growing is assayed for production of monoclonal antibodies directed against the antigenic peptide. The binding specificity of monoclonal antibodies produced by hybridoma cells can be determined by immunoprecipitation or by an *in vitro* binding assay, such as radioimmunoassay (RIA) or
5 enzyme-linked immunosorbent assay (ELISA). The binding affinity of the monoclonal antibody can, for example, be determined by the Scatchard analysis of Munson and Pollard, Anal. Biochem., 107:220 (1980). The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole,
10 preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[185] After hybridoma cells are identified that produce antibodies of the desired specificity, affinity, or activity, the clones may be subcloned by limiting dilution procedures and grown by standard methods (Goding, *supra*). Suitable culture media for this purpose include, for example, D-MEM or RPMI-1640 medium. In addition, the hybridoma cells may
15 be grown *in vivo* as ascites tumors in an animal.

[186] The monoclonal antibodies secreted by the subclones are suitably separated from the culture medium, ascites fluid, or serum by conventional immunoglobulin purification procedures such as, for example, protein A-SEPHAROSETM, hydroxyapatite chromatography, gel electrophoresis, dialysis, or affinity chromatography.

[187] DNA encoding the monoclonal antibodies can be readily isolated and sequenced using conventional procedures (*e.g.*, by using oligonucleotide probes that are capable of binding specifically to genes encoding the heavy and light chains of murine antibodies). The hybridoma cells serve as a preferred source of such DNA. Once isolated, the DNA may be placed into expression vectors, which can then be transfected into host cells such as *E. coli*
25 cells, simian COS cells, Chinese hamster ovary (CHO) cells, or myeloma cells that do not otherwise produce immunoglobulin protein, to obtain the synthesis of monoclonal antibodies in the recombinant host cells. Review articles on recombinant expression in bacteria of DNA encoding antibody include Skerra et al., Curr. Opinion in Immunol., 5:256-262 (1993), and Pluckthun, Immunol. Revs., 130:151-188 (1992).

30 [188] **MOABS - COMBINATORIAL:**

[189] In a further embodiment, antibodies or antibody fragments can be isolated from antibody phage libraries generated using the techniques described in McCafferty et al.,

Nature, 348:552-554 (1990), using the proper antigen such as CD11a, CD18, IgE, or HER-2 to select for a suitable antibody or antibody fragment. Clackson et al., Nature, 352:624-628 (1991) and Marks et al., J. Mol. Biol., 222:581-597 (1991) describe the isolation of murine and human antibodies, respectively, using phage libraries. Subsequent publications describe the production of high affinity (nM range) human antibodies by chain shuffling, Marks et al.,
5 Biotechnology, 10:779-783 (1992), as well as combinatorial infection and *in vivo* recombination as strategies for constructing very large phage libraries, Waterhouse et al., Nuc. Acids. Res., 21:2265-2266 (1993). Combinatorial antibodies are also discussed in Huse et al., Science 246:1275-1281 (1989), and Sastry et al., Proc. Natl. Acad. Sci. USA, 86:5728-
10 5732 (1989), and Alting-Mees et al., Strategies in Molecular Biology 3:1-9 (1990). These references describe a system commercially available from Stratacyte, La Jolla, CA USA. Briefly, mRNA is isolated from a B cell population and utilized to create heavy and light chain immunoglobulin cDNA expression libraries in the λ IMMUNOZAP(H) and λ IMMUNOZAP(L) vectors. These vectors may be screened individually or co-expressed to
15 form Fab fragments or antibodies, *see* Huse et al., *supra*; *see also* Sastry et al., *supra*. Positive plaques can subsequently be converted to a non-lytic plasmid, which allows for high-level expression of monoclonal antibody fragments from *E. coli*.

[190] HUMANIZED MOAB:

[191] Binding partners can also be constructed utilizing recombinant DNA techniques to
20 incorporate the variable regions of a gene that encode a specifically binding antibody. The construction of these binding partners can be readily accomplished by one of ordinary skill in the art in view of the present application. *See* Larrick et al., Biotechnology, 7:934-938 (1989); Riechmann et al., Nature, 332:323-327 (1988); Roberts et al., Nature, 328:731-734 (1987); Verhoeven et al., Science 239:1534-1536 (1988); Chaudhary et al., Nature, 339:394-
25 397 (1989); *see also* U.S. Pat. No. 5,132,405 entitled "Biosynthetic Antibody Binding Sites".) For example, the DNA can be modified by substituting the coding sequence for human heavy- and light-chain constant domains in place of homologous murine sequences, U.S. Pat. No. 4,816,567; Morrison, et al., Proc. Nat. Acad. Sci., 81:6851 (1984), or by covalently joining to the immunoglobulin coding sequence all or part of the coding sequence for a non-
30 immunoglobulin polypeptide. In another example, DNA segments encoding the desired antigen-binding domains specific for the protein or peptide of interest are amplified from appropriate hybridomas and inserted directly into the genome of a cell that produces human

antibodies. See Verhoeyen et al., *supra*; see also Reichmann et al., *supra*. Some of these techniques transfer the antigen-binding site of a specifically binding mouse or rat monoclonal antibody or the like to a human antibody. Such antibodies can be preferable for therapeutic use in humans because they are typically not as antigenic as rat or mouse antibodies.

- 5 [192] In an alternative embodiment, genes that encode the variable region from a hybridoma producing a monoclonal antibody of interest can be amplified using oligonucleotide primers for the variable region. These primers may be synthesized by one of ordinary skill in the art, or may be purchased from commercially available sources. For instance, primers for mouse and human variable regions including, among others, primers for
- 10 V_{HA}, V_{Hb}, V_{Hc}, V_{Hd}, C_{H1}, V_L, and C_L regions are available from Stratacyte (La Jolla, CA). These primers may be utilized to amplify heavy- or light-chain variable regions, which may then be inserted into vectors such as IMMUNOZAPTM(H) or IMMUNOZAPTM(L) (Stratacyte), respectively. These vectors may then be introduced into *E. coli* for expression. Utilizing these techniques, large amounts of a single-chain protein containing a fusion of the
- 15 V_H and V_L domains may be produced, see Bird et al., Science 242:423-426 (1988).

[193] ANTIBODY SUBSTITUTIONS - NON-IMMUNOGLOBULIN POLYPEPTIDES (ALL ABS):

- [194] Non-immunoglobulin polypeptides can be substituted in monoclonal and other antibodies described herein for the constant domains of an antibody, or they can be
- 20 substituted for the variable domains of one antigen-combining site of an antibody to create a chimeric bivalent antibody comprising one antigen-combining site having specificity for an antigen and another antigen-combining site having specificity for a different antigen.

[195] CHIMERICS:

- [196] Chimeric or hybrid antibodies can also be prepared *in vitro* using known methods in
- 25 synthetic protein chemistry, including those involving crosslinking agents, in view of the present application. For example, immunotoxins may be constructed using a disulfide-exchange reaction or by forming a thioether bond. Examples of suitable reagents for this purpose include iminothiolate and methyl-4-mercaptoputyrimidate.

[197] ANTIBODY LABELING (ALL ABS):

- 30 [198] For diagnostic applications or otherwise as desired, and for monoclonal and other antibodies described herein, the antibodies and other binding partners typically will be labeled with a detectable moiety. The detectable moiety can be any moiety that is capable of

producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ^3H , ^{14}C , ^{32}P , ^{35}S , or ^{125}I ; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or horseradish peroxidase. Any method known in the art for conjugating the antibody or binding partner to the detectable moiety may be employed, including those methods described by Hunter et al., *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.*, 40:219 (1981); and Nygren, *J. Histochem. Cytochem.*, 30:407 (1982).

10 (iii) Humanized And Human Antibodies

[199] **HUMANIZED AB GENERALLY:**

[200] Methods for humanizing non-human antibodies are well known in the art and have been discussed in part above. Generally, a humanized antibody has one or more amino acid residues introduced into it from a source which is non-human. These non-human amino acid residues are often referred to as "import" residues, which are typically taken from an "import" variable domain. Humanization can be performed essentially following the method of Winter and co-workers, Jones et al., *Nature*, 321:522-525 (1986); Riechmann et al., *Nature*, 332:323-327 (1988); Verhoeven et al., *Science*, 239:1534-1536 (1988), by substituting rodent CDRs or CDR sequences for the corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies, U.S. Pat. No. 4,816,567, wherein substantially less than an intact human variable domain has been substituted by the corresponding sequence from a non-human species. In practice, humanized antibodies are typically human antibodies in which some CDR residues and possibly some FR residues are substituted by residues from analogous sites in rodent antibodies.

25 [201] The choice of human variable domains, both light and heavy, to be used in making humanized antibodies is very important to reduce antigenicity. According to the so-called "best-fit" method, the sequence of the variable domain of a rodent antibody is screened against the entire library of known human variable-domain sequences. The human sequence that is closest to that of the rodent is then accepted as the human framework (FR) for the humanized antibody. Sims et al., *J. Immunol.*, 151:2296 (1993); Chothia and Lesk, *J. Mol. Biol.*, 196:901 (1987). Another method uses a particular framework derived from the consensus sequence of all human antibodies of a particular subgroup of light or heavy chains.

The same framework may be used for several different humanized antibodies. Carter et al., Proc. Natl. Acad. Sci. USA, 89:4285 (1992); Presta et al., J. Immunol., 151:2623 (1993).

[202] It is typically desirable that antibodies be humanized with retention of high affinity for the antigen and other favorable biological properties. To achieve this goal, according to one method, humanized antibodies are prepared by a process of analysis of the parental sequences and various conceptual humanized products using three-dimensional models of the parental and humanized sequences. Three-dimensional immunoglobulin models are commonly available and are familiar to those skilled in the art. Computer programs are available that illustrate and display probable three-dimensional conformational structures of selected candidate immunoglobulin sequences. Inspection of these displays permits analysis of the likely role of the residues in the functioning of the candidate immunoglobulin sequence, *e.g.*, the analysis of residues that influence the ability of the candidate immunoglobulin to bind antigen. In this way, FR residues can be selected and combined from the consensus and import sequences so that the desired antibody characteristic, such as increased affinity for the target antigen(s), is achieved. In general, CDR residues are directly and most substantially involved in influencing antigen binding.

[203] It is also possible to produce transgenic animals (*e.g.*, mice) that are capable, upon immunization, of producing a full repertoire of human antibodies in the absence of endogenous immunoglobulin production. For example, it has been described that the homozygous deletion of the antibody heavy-chain joining region (J_H) gene in chimeric and germ-line mutant mice results in complete inhibition of endogenous antibody production. Transfer of the human germ-line immunoglobulin gene array in such germ-line mutant mice will result in the production of human antibodies upon antigen challenge. *See, e.g.*, Jakobovits et al., Proc. Natl. Acad. Sci. USA. 90:2551-255 (1993); Jakobovits et al., Nature, 362:255-258 (1993); Bruggemann et al., Year Immuno., 7:33 (1993). Human antibodies can also be produced in phage-display libraries, Hoogenboom and Winter, J. Mol. Biol., 227:381 (1991); Marks et al., J. Mol. Biol., 222:581 (1991).

(iv) Antibody Fragments

[204] **ANTIBODY FRAGMENTS:**

[205] Various techniques have been developed for the production of antibody fragments. Such fragments can be derived via proteolytic digestion of intact antibodies, *see, e.g.*,

Morimoto et al., J. Biochem. Biophys. Meth. 24:107-117 (1992) and Brennan et al., Science, 229:81 (1985). Fragments can also be produced directly by recombinant host cells. For example, antibody fragments can be isolated from antibody phage libraries discussed above. Fab'-SH fragments can be directly recovered from *E. coli* and chemically coupled to form
5 F(ab')₂ fragments, Carter et al., Biotechnology 10:163-167 (1992). F(ab')₂ fragments can be isolated directly from recombinant host cell culture. Other techniques for the production of antibody fragments will be apparent to the skilled practitioner.

(v) Bispecific Antibodies

10 [206] **BISPECIFIC ANTIBODIES GENERALLY:**

[207] Bispecific antibodies (BsAbs) are antibodies that have binding specificities for at least two different antigens. Bispecific antibodies can be derived from full-length antibodies or from antibody fragments, *e.g.*, F(ab')₂ bispecific antibodies.

[208] Methods for making bispecific antibodies are known in the art. Traditional
15 production of full-length bispecific antibodies is based on the coexpression of two immunoglobulin heavy chain-light chain pairs, where the two chains have different specificities, Millstein and Cuello, Nature, 305:537-539 (1983). Because of the random assortment of immunoglobulin heavy and light chains, these hybridomas (quadromas) produce a mixture of potentially 10 different antibody molecules, of which only one has the
20 correct bispecific structure. Purification of the correct molecule, which is usually accomplished by affinity chromatography steps, is rather cumbersome, and the product yields are low. Similar procedures are disclosed in WO 93/08829, and in Traunecker et al., E.M.B.O. J., 10:3655-3659 (1991).

[209] According to another approach, antibody variable domains containing the desired
25 binding specificities (antibody-antigen combining sites) are fused to immunoglobulin constant domain sequences. The fusion is preferably with an immunoglobulin heavy chain constant domain, comprising at least part of the hinge, C_H 2, and C_H 3 regions. It is preferred to have the first heavy-chain constant region (C_H 1) containing the site necessary for light chain binding, present in at least one of the fusions. DNAs encoding the immunoglobulin
30 heavy chain fusions and, if desired, the immunoglobulin light chain, are inserted into separate expression vectors, and are co-transfected into a suitable host organism. This provides for great flexibility in adjusting the mutual proportions of the three polypeptide fragments in

embodiments when unequal ratios of the three polypeptide chains used in the construction provide the improved yields. It is, however, possible to insert the coding sequences for two or all three polypeptide chains in one expression vector when the expression of at least two polypeptide chains in equal ratios results in high yields or when the ratios are of no particular significance.

[210] ANTIBODIES - HYBRID IMMUNOGLOBULIN HEAVY CHAIN:

[211] In one embodiment of this approach, the bispecific antibodies are composed of a hybrid immunoglobulin heavy chain with a first binding specificity in one arm, and a hybrid immunoglobulin heavy chain-light chain pair (providing a second binding specificity) in the other arm. This asymmetric structure may facilitate the separation of the desired bispecific compound from unwanted immunoglobulin chain combinations, as the presence of an immunoglobulin light chain in only one half of the bispecific molecule provides for a facile method of separation. This approach is discussed in WO 94/04690. For further details of generating bispecific antibodies see, for example, Suresh et al., Meth. Enzymol., 121:210 (1986).

[212] ANTIBODIES - CROSS-LINKED OR "HETEROCONJUGATE":

[213] Bispecific antibodies include cross-linked or "heteroconjugate" antibodies. For example, one of the antibodies in the heteroconjugate can be coupled to avidin, the other to biotin. Such antibodies have, for example, been proposed to target immune system cells to unwanted cells, U.S. Pat. No. 4,676,980), and for treatment of HIV infection, WO 91/00360, WO 92/200373, and EP 03089). Heteroconjugate antibodies may be made using any convenient cross-linking methods. Suitable cross-linking agents are well known in the art, and are disclosed in U.S. Pat. No. 4,676,980, along with a number of cross-linking techniques.

[214] ANTIBODIES - DIABODIES:

[215] The "diabody" technology described by Hollinger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993) has provided an alternative mechanism for making BsAb fragments. The fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) by a linker that is too short to allow pairing between the two domains on the same chain. Accordingly, the V_H and V_L domains of one fragment are forced to pair with the complementary V_L and V_H domains of another fragment, thereby forming two antigen-binding sites.

[216] Another strategy for making BsAb fragments by the use of single-chain Fv (sFv) dimers has also been reported. See Gruber et al., J. Immunol., 152:5368 (1994). These researchers designed an antibody comprising the V_H and V_L domains of a first antibody joined by a 25-amino-acid-residue linker to the V_H and V_L domains of a second antibody.

5 The refolded molecule bound to fluorescein and the T-cell receptor and redirected the lysis of human tumor cells that had fluorescein covalently linked to their surface.

[217] **ANTIBODIES - OTHER:**

[218] Techniques for generating bispecific antibodies from antibody fragments have also been described in the literature. For example, bispecific antibodies can be prepared using chemical linkage. Brennan et al., Science, 229:81 (1985) describe a procedure wherein intact
10 antibodies are proteolytically cleaved to generate F(ab')₂ fragments. These fragments are reduced in the presence of the dithiol complexing agent sodium arsenite to stabilize vicinal dithiols and prevent intermolecular disulfide formation. The Fab' fragments generated are then converted to thionitrobenzoate (TNB) derivatives. One of the Fab'-TNB derivatives is
15 then reconverted to the Fab'-thiol by reduction with mercaptoethylamine and is mixed with an equimolar amount of the other Fab'-TNB derivative to form the BsAb. The BsAbs produced can be used as agents for the selective immobilization of enzymes.

[219] Fab'-SH fragments can be directly recovered from *E. coli*, which can be chemically coupled to form bispecific antibodies. Shalaby et al., J. Exp. Med., 175:217-225 (1992)
20 describe the production of a fully humanized BsAb F(ab')₂ molecule. Each Fab' fragment was separately secreted from *E. coli* and subjected to directed chemical coupling *in vitro* to form the BsAb. The BsAb thus formed was able to bind to cells overexpressing the HER2 receptor and normal human T cells, as well as trigger the lytic activity of human cytotoxic lymphocytes against human breast tumor targets. See also Rodriguez et al., Int. J. Cancers
25 (Suppl.) 7:45-50 (1992).

[220] Various techniques for making and isolating BsAb fragments directly from recombinant cell culture have also been described. For example, bispecific F(ab')₂ heterodimers have been produced using leucine zippers. Kostelny et al., J. Immunol., 148(5):1547-1553 (1992). The leucine zipper peptides from the Fos and Jun proteins are
30 linked to the Fab' portions of two different antibodies by gene fusion. The antibody homodimers are reduced at the hinge region to form monomers and then re-oxidized to form the antibody heterodimers.

b. Antibody Purification

[221] ANTIBODY PURIFICATION GENERALLY:

[222] When using recombinant techniques, the antibody can be produced intracellularly, in the periplasmic space, or directly secreted into the medium. If the antibody is produced intracellularly, as a first step, the particulate debris, either host cells or lysed fragments, is removed, for example, by centrifugation or ultrafiltration. Carter et al., *Bio/Technology* 10:163-167 (1992), describe a procedure for isolating antibodies which are secreted to the periplasmic space of *E. coli*. Briefly, cell paste is thawed in the presence of sodium acetate (pH 3.5), EDTA, and phenylmethylsulfonylfluoride (PMSF) over about 30 min. Cell debris can be removed by centrifugation. Where the antibody is secreted into the medium, supernatants from such expression systems are generally first concentrated using a commercially available protein concentration filter, for example, an Amicon or Millipore Pellicon ultrafiltration unit. A protease inhibitor such as PMSF may be included in any of the foregoing steps to inhibit proteolysis and antibiotics may be included to prevent the growth of adventitious contaminants.

[223] BEFORE LPHIC:

[224] The antibody composition prepared from the cells is preferably subjected to at least one purification step prior to LPHIC. Examples of suitable purification steps include hydroxyapatite chromatography, gel electrophoresis, dialysis, and affinity chromatography. The suitability of protein A as an affinity ligand depends on the species and isotype of any immunoglobulin Fc domain that is present in the antibody. Protein A can be used to purify antibodies that are based on human $\gamma 1$, $\gamma 2$, or $\gamma 4$ heavy chains, Lindmark et al., *J. Immunol. Meth.* 62:1-13 (1983). Protein G has been recommended for mouse isotypes and for human $\gamma 3$, Guss et al., *E.M.B.O. J.*, 5:1567-1575 (1986). The matrix to which the affinity ligand is attached is often agarose, but other matrices are available. Mechanically stable matrices such as controlled pore glass or poly(styrenedivinyl)benzene allow for faster flow rates and shorter processing times than can be achieved with agarose. Where the antibody comprises a $C_H 3$ domain, the Bakerbond ABXTM resin (J. T. Baker, Phillipsburg, N.J.) is useful for purification. Other techniques for protein purification such as fractionation on an ion-exchange column, ethanol precipitation, Reverse Phase HPLC, chromatography on silica, chromatography on heparin SEPHAROSETM, chromatography on an anion or cation

exchange resin (such as a polyaspartic acid column), chromatofocusing, SDS-PAGE, and ammonium sulfate precipitation are also available depending on the antibody to be recovered.

[225] LPHIC:

[226] Following any preliminary purification step(s), the mixture comprising the antibody of interest and contaminant(s) can be subjected to LPHIC. *See* US Patent No. 6,214,984. Often, the antibody composition to be purified will be present in a buffer from the previous purification step. However, it may be necessary to add a buffer to the antibody composition prior to the LPHIC step. Many buffers are available and can be selected by routine experimentation. The pH of the mixture comprising the antibody to be purified and at least one contaminant in a loading buffer is adjusted to a pH of about 2.5-4.5 using either an acid or base, depending on the starting pH. The loading buffer can have a low salt concentration (*e.g.*, less than about 0.25 M salt).

[227] The mixture is loaded on the HIC column. HIC columns normally comprise a base matrix (*e.g.*, cross-linked agarose or synthetic copolymer material) to which hydrophobic ligands (*e.g.*, alkyl or aryl groups) are coupled. One example of an HIC column comprises an agarose resin substituted with phenyl groups (*e.g.*, a Phenyl SEPHAROSE™ column). Many HIC columns are available commercially. Examples include, but are not limited to, Phenyl SEPHAROSE 6 FAST FLOW™ column with low or high substitution (Pharmacia LKB Biotechnology, AB, Sweden); Phenyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); Octyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); FRACTOGEL™ EMD Propyl or FRACTOGEL™ EMD Phenyl columns (E. Merck, Germany); MACRO-PREP™ Methyl or MACRO-PREP™ t-Butyl Supports (Bio-Rad, California); WP HI-Propyl (C₃)™ column (J. T. Baker, New Jersey); and TOYOPEARL™ ether, phenyl, or butyl columns (TosoHaas, PA).

[228] The antibody is typically eluted from the column using an elution buffer that is the same as the loading buffer. The elution buffer can be selected using routine experimentation in view of the present application. The pH of the elution buffer may be between about 2.5-4.5 and have a low salt concentration (*e.g.*, less than about 0.25 M salt). It may not be necessary to use a salt gradient to elute the antibody of interest; the desired product may be recovered in the flow-through fraction that does not bind significantly to the column.

[229] The LPHIC step provides a way to remove a correctly folded and disulfide bonded antibody from unwanted contaminants (*e.g.*, incorrectly associated light and heavy fragments). The method can provide an approach to substantially remove an impurity characterized as a correctly folded antibody fragment whose light and heavy chains fail to
5 associate through disulfide bonding. Antibody compositions prepared using LPHIC can be up to about 95% pure or more. Purities of more than about 98% have been reported. US Patent No. 6,214,984.

[230] **POST LPHIC:**

[231] Antibody compositions prepared by LPHIC can be further purified as desired using
10 techniques which are well known in the art. Diagnostic or therapeutic formulations of the purified protein can be made by providing the antibody composition in a physiologically acceptable carrier, examples of which are provided below. To remove contaminants (*e.g.*, unfolded antibody and incorrectly associated light and heavy fragments) from the HIC column so that it can be re-used, a composition including urea (*e.g.*, 6.0 M urea, 1% MES
15 buffer pH 6.0, 4 mM ammonium sulfate) can be flowed through the column.

c. Some Uses For Antibodies Described Herein

(i) Generally

[232] **GENERALLY:**

20 [233] The present invention comprises any suitable use for the antibodies and other binding partners discussed herein. The following provides some of the desired uses, including diagnostic and therapeutic uses. Various diagnostic and therapeutic uses for antibodies have been reviewed in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.* 53:189-
25 204 (1990); and, Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)* 50(8):901-909 (1990), for example.

[234] **ASSAYS:**

[235] The antibodies can be used in immunoassays, such as enzyme immunoassays. BsAbs can be useful for this type of assay; one arm of the BsAb can be designed to bind to a
30 specific epitope on the enzyme so that binding does not cause enzyme inhibition, the other arm of the antibody can be designed to bind to an immobilizing matrix ensuring a high enzyme density at the desired site. Examples of such diagnostic BsAbs include those having

specificity for IgG as well as ferritin, and those having binding specificities for horseradish peroxidase (HRP) as well as a hormone, for example. Monoclonal and polyclonal antibodies are also exemplary antibodies for immunoassays.

[236] The antibodies can be designed for use in two-site immunoassays. For example, two antibodies are produced binding to two separate epitopes on the analyte protein; one antibody binds the complex to an insoluble matrix, the other binds an indicator enzyme.

[237] **DIAGNOSTIC USES:**

[238] Antibodies can also be used for immunodiagnosis, *in vitro* or *in vivo* or otherwise, of various diseases or conditions based on the presence or absence of a particular GPCR. Such diseases and conditions include, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and

cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

- 5 [239] To facilitate this diagnostic use, an antibody that binds a particular GPCR, when such is differentially expressed in tumors or other target diseases, can be conjugated with a detectable marker (*e.g.*, a chelator that binds a radionuclide). Examples of tumor-associated antigens being used in a similar fashion include an antibody having specificity for the tumor-associated antigen CEA used for imaging colorectal and thyroid carcinomas and the anti-
10 p185^{HER2} antibody used for detecting cancers characterized by amplification of the HER2 protooncogene. Other uses for the antibodies of the present invention will be apparent to the skilled practitioner in view of the present application.

(ii) Assays

15 [240] ASSAYS:

[241] For certain applications such as some diagnostic and other assay applications, the antibody typically can be labeled directly or indirectly with a detectable moiety. The detectable moiety can be any moiety that is capable of producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ³H,
20 ¹⁴C, ³²P, ³⁵S, or ¹²⁵I; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or HRP.

[242] Any method known in the art for separately conjugating the antibody to the detectable moiety may be employed, including those methods described by Hunter et al.,
25 *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.* 40:219 (1981); and, Nygren, *J. Histochem. and Cytochem.* 30:407 (1982).

[243] The antibodies of the present invention may be employed in any desired assay method, such as competitive binding assays, direct, and indirect sandwich assays, and immunoprecipitation assays. Zola, *Monoclonal Antibodies: A Manual of Techniques*, pp.
30 147-158 (CRC Press, Inc. (1987).

[244] COMPETITIVE BINDING ASSAYS:

[245] Competitive binding assays rely on the ability of a labeled standard to compete with the test sample analyte for binding with a limited amount of antibody. The amount of analyte in the test sample is inversely proportional to the amount of standard that becomes bound to the antibody. To facilitate determining the amount of standard that becomes bound, the antibody generally is insolubilized before or after the competition, so that the standard, and analyte that are bound to the antibody may conveniently be separated from the standard, and analyte which remain unbound.

[246] BsAbs are particularly useful for sandwich assays which involve the use of two molecules, each capable of binding to a different immunogenic portion, or epitope, of the sample to be detected. In a sandwich assay, the test sample analyte is bound by a first arm of the antibody which is immobilized on a solid support, and thereafter a second arm of the antibody binds to the analyte, thus forming an insoluble three part complex. *See, e.g.,* U.S. Pat. No. 4,376,110. The second arm of the antibody may itself be labeled with a detectable moiety (direct sandwich assays) or may be measured using an anti-immunoglobulin antibody that is labeled with a detectable moiety (indirect sandwich assay). For example, one type of sandwich assay is an ELISA assay, in which case the detectable moiety is an enzyme. Assays are discussed further elsewhere herein in relation to binding partners such as antibodies, and antigenic peptides for particular GPCRs, including assays searching for or using such antigenic peptides, and would be apparent to those skilled in the art in view of the present application.

(iii) Affinity Purification

[247] AFFINITY PURIFICATION:

[248] The antibodies also are useful for the affinity purification of an antigen of interest such as a particular GPCR from sources such as recombinant cell culture or natural sources.

(iv) Therapeutics

[249] THERAPEUTIC USES:

[250] Therapeutic compositions, and uses, etc., for the antibodies described herein will now be discussed. As with other parts of this application, this section does not contain the entire discussion of therapeutic uses or compositions, etc., for antibodies; other sections discuss both antibodies, and therapeutics, and the discussion in this section applies to certain

other aspects discussed herein. Turning to antibodies and therapeutics, the antibodies can be used, for example, for redirected cytotoxicity (*e.g.*, to kill tumor cells), as a vaccine adjuvant, for delivering thrombolytic agents to clots, for delivering immunotoxins to tumor cells, for converting enzyme activated prodrugs at a target site (*e.g.*, a tumor), for treating infectious diseases or targeting immune complexes to cell surface receptors.

[251] THERAPEUTIC FORMULATIONS:

[252] Therapeutic formulations of the antibody can be prepared for storage by mixing the antibody having the desired degree of purity with optional physiologically acceptable carriers, excipients, or stabilizers (Remington's Pharmaceutical Sciences, 16th edition, Osol, A., Ed. (1980), for example in the form of lyophilized cake or aqueous solutions. Acceptable carriers, excipients, or stabilizers are nontoxic to recipients at the dosages, and concentrations employed, and include buffers such as phosphate, citrate, and other organic acids; antioxidants including ascorbic acid; low molecular weight (less than about 10 residues) polypeptides; proteins, such as serum albumin, gelatin, or immunoglobulins; hydrophilic polymers such as polyvinylpyrrolidone; amino acids such as glycine, glutamine, asparagine, arginine, or lysine; monosaccharides, disaccharides, and other carbohydrates including glucose, mannose, or dextrans; chelating agents such as EDTA; sugar alcohols such as mannitol or sorbitol; salt-forming counterions such as sodium; or nonionic surfactants such as Tween, Pluronic, or polyethylene glycol (PEG).

[253] The antibodies also may be entrapped in microcapsules prepared, for example, by coacervation techniques or by interfacial polymerization (for example, hydroxymethylcellulose or gelatin-microcapsules, and poly-[meth]methacrylate] microcapsules, respectively), in colloidal drug delivery systems (for example, liposomes, albumin microspheres, microemulsions, nano-particles, and nanocapsules), or in macroemulsions. Such techniques are disclosed in Remington's Pharmaceutical Sciences, *supra*.

[254] THERAPEUTIC FORMULATIONS -STERILE:

[255] An antibody to be used for *in vivo* human administration should be sterile. This can be accomplished by filtration through sterile filtration membranes, for example prior to or following lyophilization and reconstitution. The antibody ordinarily will be stored in lyophilized form or in solution. Therapeutic antibody compositions generally are placed into

a container having a sterile access port, for example, an intravenous solution bag or vial having a stopper pierceable by a hypodermic injection needle.

[256] THERAPEUTIC ADMINISTRATIONS:

[257] The route of antibody administration is in accord with known methods, *e.g.*,
5 injection or infusion by intravenous, intraperitoneal, intracerebral, intramuscular, intraocular, intraarterial, or intralesional routes, or by sustained release systems as noted below.

[258] The antibody can be administered, for example, continuously by infusion or by bolus injection. Suitable examples of sustained-release preparations include semipermeable matrices of solid hydrophobic polymers containing the protein, which matrices are in the
10 form of shaped articles, *e.g.*, films, or microcapsules. Examples of sustained-release matrices include polyesters, hydrogels (*e.g.*, poly(2-hydroxyethyl-methacrylate) as described by Langer et al., J. Biomed. Mater. Res., 15:167-277 (1981), and Langer, Chem. Tech., 12:98-105 (1982), or poly(vinylalcohol)), polylactides, U.S. Pat. No. 3,773,919; EP 58,481, copolymers of L-glutamic acid and gamma ethyl-L-glutamate, Sidman et al., Biopolymers,
15 22:547-556 (1983), non-degradable ethylene-vinyl acetate, Langer et al., *supra*, degradable lactic acid-glycolic acid copolymers such as the LUPRON DEPOT™ (injectable microspheres composed of lactic acid-glycolic acid copolymer and leuprolide acetate), and poly-D-(-)-3-hydroxybutyric acid, EP 133,988.

[259] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-POLYMERS:
20

[260] While polymers such as ethylene-vinyl acetate and lactic acid-glycolic acid sustain release of molecules for over 100 days, certain hydrogels release proteins for shorter time periods. When encapsulated antibodies remain in the body for a long time, they may denature or aggregate as a result of exposure to moisture at 37°C, resulting in a loss of
25 biological activity and possible changes in immunogenicity. Rational strategies can be devised for antibody stabilization depending on the mechanism involved. For example, if the aggregation mechanism is discovered to be intermolecular S-S bond formation through thio-disulfide interchange, stabilization may be achieved by modifying sulfhydryl residues, lyophilizing from acidic solutions, controlling moisture content, using appropriate additives,
30 and developing specific polymer matrix compositions.

[261] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-LIPOSOMES:

[262] Sustained-release antibody compositions also include liposomally entrapped antibody. Liposomes containing the antibody can be prepared by methods such as those in DE 3,218,121; Epstein et al., Proc. Natl. Acad. Sci. USA, 82:3688-3692 (1985); Hwang et al., Proc. Natl. Acad. Sci. USA, 77:4030-4034 (1980); EP 52,322; EP 36,676; EP 88,046; EP 5 143,949; EP 142,641; Japanese patent application 83-118008; U.S. Pat. Nos. 4,485,045 and 4,544,545; and EP 102,324. Ordinarily the liposomes are of the small (about 200-800 Angstroms) unilamellar type in which the lipid content is greater than about 30 mol. % cholesterol, the selected proportion being adjusted for the optimal antibody therapy.

[263] **THERAPEUTICALLY EFFECTIVE AMOUNT:**

10 [264] An effective amount of antibody to be employed therapeutically will depend, for example, upon the therapeutic objectives, the route of administration, and the condition of the patient. Accordingly, it will be necessary for the therapist to titer the dosage and modify the route of administration as required to obtain the optimal therapeutic effect. A typical daily dosage might range from about 1 μ g/kg to up to 10 mg/kg or more, depending on the factors
15 mentioned above. Typically, the clinician will administer antibody until a dosage is reached that achieves the desired effect. The progress of this therapy is easily monitored by conventional assays.

20 5. DRUG DESIGN BASED ON THE ANTIGENS HEREIN OR ANTIBODIES THERETO

[265] **DISEASE/CONDITIONS LIST:**

[266] The peptides and antibodies of the present invention can serve as valuable tools for designing drugs for treating various pathophysiological conditions such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-
25 related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (e.g., osteoarthritis, osteoporosis), carcinoma (e.g., basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung
30 small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne

muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved or that would be readily apparent to those skilled in the art in view of the present application.

EXAMPLES

[267] The Examples below provide information as follows: Example 1 relates to the identification and selection of the antigens set forth in Figure 2. Examples 2 to 4 relate to antibody production and purification based on such antigens. Examples 5 to 10 relate to H&E staining. And, Example 11 relates to Western blot analyses.

EXAMPLE 1: SELECTION OF ANTIGENS

[268] Antigenic peptides were derived from the amino acid sequence of a particular GPCR based on analyses of likely antigen-containing regions and specificity of those regions for the protein/gene of interest. The specificity of the antigen peptides (approximately 20 amino acids in length) for antibody generation was determined using the outlined techniques, including BLAST of several public databases. These public databases included but were not limited to GenBank, Swiss Prot Human, Swiss Prot NonHuman, GenPeptH, GenPept M, and

LifeSpan's proprietary databases. With respect to specificity, parameters that precluded the use of a particular peptide included the presence of 6 or more contiguous amino acids with sequence identity to protein(s) other than the protein of interest, the presence of sites of posttranslational modification, including phosphorylation and glycosylation, and highly hydrophobic sequences, which could indicate potential *in situ* localization within the plasma membrane. The peptides were analyzed for antigenicity using the published algorithm of Hopp, T. P., and Woods, K. R, Proc. Natl. Acad. Sci. U.S.A. 78, 3824-3828, (1981). Additional considerations in antigenic peptide design included 1) selection against sequences with multiple prolines in a row, 2) selection against sequences with multiple serines in a row, 3) selection against sequences with multiple lysines in a row, 4) selection against sequences with multiple arginines in a row 5) selection against sequences with multiple aspartic acids in a row, 6) selection against sequences with multiple glutamic acids in a row, 7) selection against peptides containing methionine or tryptophan, which can become oxidized as a result of the cyclization reaction, and 8) avoidance of stretches of 5 or more amino acids having no uncharged amino acids (which also resulted in a desirable charge to peptide length ratio of at least 1 charge:5 residues). The selected antigenic peptides are set forth in the Sequence Listing and in Figure 2.

EXAMPLE 2: ANTIBODY PRODUCTION SCHEDULE

- [269] Day 0 - Pre-immune serum collection (approximately 5.0 ml). Immunize using 200 µg antigen peptide per rabbit in Complete Freund's Adjuvant.
- [270] Day 14 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [271] Day 28 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [272] Day 42 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [273] Day 49 - First production bleed; obtain 24.0 - 26.0 ml.
- [274] Day 56 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [275] Day 63 - Second production bleed and ELISA analysis.

[276] Day 70 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.

[277] Day 77 - Third production bleed and affinity purification.

5 EXAMPLE 3: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 COUPLING OF PEPTIDE TO CNBR-ACTIVATED SEPHAROSE 4B

[278] Weigh out 0.8 g of CNBr-activated Sepharose 4B (2.5 ml of final gel volume). Wash and re-swell on sintered glass filter with 1 mM HCl, followed by coupling buffer (0.1 M NaHCO₃, 0.25 M NaCl, pH 8.5). Dissolve 10 mg of protein or peptide in coupling buffer.
10 Mix protein solution with gel suspension and incubate 2 hours at room temperature or overnight at 4°C. Block remaining active groups with 0.2 M glycine buffer, pH 8.1. Wash away excess adsorbed protein with coupling buffer, followed by 0.1 M acetate buffer containing 0.5 M NaCl, pH 4.3. Equilibrate the column with phosphate-buffered saline (PBS), pH 7.7.

15 EXAMPLE 4: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 AFFINITY PURIFICATION OF ANTISERUM

[279] Dilute 10 ml of clear antiserum 1:1 with PBS, pH 7.7, apply to affinity column at a flow rate of 0.3 ml/minute, and monitor absorbance of eluate at 280 nm. Collect fractions of
20 unbound material and rinse column with PBS, pH 7.7. Elute bound antibody with 0.2 M glycine, pH 1.85, and collect eluate until absorbance at 280 nm returns to baseline. Neutralize all collected fractions with 1 M Tris-HCl, pH 8.5 immediately after collection. Determine OD at 280 nm, and determine the total OD recovered. Conduct ELISA analysis with the corresponding antigen to confirm the presence and identity of recovered antibody
25 and the removal of all antibody from the original serum. Concentrate antibody to approximately 2.0 mg/ml and dialyze against PBS with 0.01% NaN₃.

EXAMPLE 5: PREPARATION OF ANTIBODY DILUTIONS

[280] The purpose of this protocol is to dilute antibodies in solution. Materials include
30 Tris-HCL Buffer with carrier protein and 0.015 M NaN₃ (Dako Antibody Diluent #S0809 (DAKO, Carpinteria, CA); vials containing the antibodies described above or commercial antibodies against the particular GPCR; pipetmen and disposable tips; container of chopped ice; 12 ml Dako reagent tubes; and, reagent tube rack.

[281] The procedure is a) calculate proportions of antibody and diluent according to desired concentrations and volume requirements; b) label reagent tubes and place in rack; c) pipette needed volume of diluent into tube(s); d) place vials of antibodies into ice; e) invert and/or flick antibody vial(s) 3 or 4 times to insure suspension; f) pipette required volume of antibody(s) into corresponding diluent volumes; and, g) mix gently.

EXAMPLE 6: PREPARATION OF AUTOSTAINER SOLUTIONS

[282] The purpose of this protocol is the preparation of concentrated solutions for use in a DAKO autostainer. Materials include DAKO[®] TBST (Tris Buffered Saline Containing Tween-S3306), 10X Concentrate, DAKO[®] Target Retrieval Solution, 10x Concentrate (S1699), deionized H₂O, 20L container, with lid, marked at the 10L level, DAKO[®] TBS (Tris Buffered Saline-S1968), and DAKO Tween[®] (S1966).

[283] The procedure to make TBST 10x Concentrate is a) pour 2 500 ml bottles DAKO[®] TBST into a 20 L container, b) add deionized H₂O until solution level is at 10 L mark, c) replace lid and shake 10 to 20 times, d) pour diluted DAKO[®] TBST into autostainer carboy(s) as designated. The procedure to make Target Retrieval Solution is a) measure 135 ml of deionized H₂O and pour into slide bath, b) measure 15 ml of DAKO[®] Target Retrieval solution, c) add to H₂O, and d) agitate. This solution is then used in the steam method of target retrieval, Example 9, below. The procedure to make TBS is a) fill 20L container to 10L mark with deionized H₂O, b) add 2 envelopes of DAKO[®] TBS, c) add 5 ml of DAKO TWEEN[®], and d) replace lid and agitate 10 to 20 times.

EXAMPLE 7: PREPARATION OF SOLUTIONS FOR ANTIBODY DETECTION

[284] Solutions for antibody detection are prepared using Vector[®] Biotinylated antibody (BA series), Vectastain[®] ABC-AP Kit (AK-5000), 10 mM sodium phosphate, pH 7.5, 0.9% saline (PBS), Vector[®] Red Alkaline Phosphatase Substrate Kit I (SK-5100), and 100 mM Tris-HCl, pH 8.2 Buffer. To prepare biotinylated antibody, add 10 ml of PBS to reagent tube, add 1 drop biotinylated antibody to the PBS, then mix gently. To prepare ABC, to 10 ml of PBS, add 2 drops each of Reagent A and Reagent B, mix immediately, then allow to stand 30 minutes before use. To prepare AP Red, which should be prepared immediately

before use, to 5 ml of Tris-HCl buffer, add 2 drops of Reagent 1 and mix well, add 2 drops of Reagent 2 and mix well, then add 2 drops of Reagent 3 and mix well.

EXAMPLE 8: DEPARAFFINIZATION AND REHYDRATION OF SAMPLES

[285] The purpose of this protocol is to remove paraffin from and rehydrate preserved tissues in preparation for IHC procedures. Materials and equipment include fume hood, vertical slide rack(s), three xylene (VWR #72060-088) baths, three 100% alcohol blend (VWR #72060-050) baths, two 95% alcohol blend (VWR #72060-052) baths, one 70% alcohol blend (VWR #72060-056) bath, and Tris-Buffered Saline (DAKO® S1968) + Tween® (DAKO S1966).

[286] Insert the slides into the vertical rack(s). Move slides through baths inside fume hood as follows:

Xylene 5 Minutes
Xylene 5 Minutes
Xylene 5 Minutes
100% Alcohol 2 Minutes
100% Alcohol 2 Minutes
100% Alcohol 1 Minute
95% Alcohol 2 Minutes
95% Alcohol 2 Minutes
70% Alcohol 1 Minute

[287] Finally, place slides into a container with TBST.

EXAMPLE 9: STEAM METHOD OF TARGET RETRIEVAL

[288] The purpose of this protocol is to optimize antibody binding within paraffin embedded tissues. Materials and equipment included a steamer, deionized H₂O, target retrieval solution, 10X concentrate (DAKO #S1699), 250 ml graduated cylinder, 15 ml graduated cylinder, staining dish(es), and deparaffinized and rehydrated tissue on microscope slides in immersed TBST. The procedure is to a) fill the steamer with deionized H₂O to appropriate depth as indicated, b) turn the steamer on, c) in a graduated cylinder, measure 135ml of deionized H₂O and pour into staining dish(es), d) pipette 15ml of target retrieval solution and release into deionized H₂O, e) place the staining dish(es) into the basket of the steamer and heat for at least 10 minutes to preheat, f) add rack(s) containing tissue slides to heated target retrieval solution, g) cover and steam for 20 minutes, h) remove container from

steamer and let stand at room temperature for 20 minutes, i) transfer rack(s) with slides to container(s) of TBST, and j) slides are now ready for staining procedures.

EXAMPLE 10: ANTIBODY DETECTION

- 5 [289] The deparaffinized, rehydrated, and steamed (if needed) slides are loaded onto racks within a DAKO autostainer and then the autostainer is run according to the manufacturer's instructions. The slides are removed and the autostainer is turned off.

EXAMPLE 11: WESTERN BLOTTING

- 10 [290] The purpose of this protocol is to visualize the immunoreactivity of the antibodies described above against the particular GPCR on a western blot. Materials and equipment included western blot membrane, TBS Tween (TBST: 100 mM Tris-HCl pH 7.5, 150 mM NaCl, 0.1% TweenTM 20), 5% non-fat dried milk in TBST (blotto), antibody of interest (primary), peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) (secondary) –
15 Jackson ImmunoResearch, ECL solution (Amersham Biosciences, Uppsala Sweden), film, developer D-19, fixer, rocking platform.

- [291] During the blotting procedure, the blot is kept wet at all times and on a substantially level surface. The Western blot is placed right-side up in 10 ml of blotto. The membrane is flipped over and the dish rocked so that the solution covered it. The membrane is then
20 flipped back to the right side and solution is again rocked over it. The blot is then placed on a shaker for at least 1 hour. Ten ml of primary antibody are prepared by diluting 1:500 in blotto.

- [292] The blotto is removed from the Western blot and replaced with the primary antibody. The blot is flipped again and placed on the shaker for 1 hour. Secondary antibody
25 and peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) are prepared 1:20,000 in 10 ml of blotto. The primary antibody is removed and the Western blot is washed 3 times with 10 ml of blotto. The blotto is removed and replaced with the secondary antibody solution. The blot is flipped and placed on the shaker for 1 hour. The secondary antibody is removed and the blot washed 2 times with 10 ml of blotto. The blotto is removed and the blot is
30 washed 2 times with 10 ml TBST. ECL is prepared by combining equal amounts of Solution 1 and 2.

[293] The blotto is removed and 1 ml of ECL is placed on the blot. The blot is flipped and let sit for 1 minute. The blot is placed on plastic wrap and immediately covered with plastic wrap. The ECL is pressed out. The blot is placed on the film, then the film is developed.

5

[294] From the foregoing, it will be appreciated that, although specific embodiments of the invention have been described herein for purposes of illustration, various modifications may be made without deviating from the spirit and scope of the invention. Accordingly, the invention includes all permutations and combinations of the subject matter set forth herein

10 and is not limited except as by the appended claims.

WHAT IS CLAIMED IS:

1. An isolated antigenic peptide according to any one of SEQ ID NOS. 692-2292.
- 5 2. An isolated antigenic peptide comprising an amino acid sequence that is at least about 90% identical to a sequence set forth in any one of SEQ ID NOS. 692-2292.
3. An isolated antigenic peptide that is an analog of an antigenic peptide according to any one of SEQ ID NOS. 692-2292.
4. An isolated antigenic peptide comprising a short antigenic amino acid
10 sequence that is identical to at least 5 consecutive amino acids set forth in any one of SEQ ID NOS. 692-2292.
5. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any one of SEQ ID NOS. 692-
15 2292.
6. A kit for the detection of antibodies against a particular GPCR in a sample comprising:
 - a) an isolated antigenic peptide according to any one of claims 1-5 and derived from the particular GPCR, and
 - 20 b) at least one of a reagent or a device for detecting the antibodies.
7. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151,
25 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187,
30 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.
8. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is at least about 90% identical to any

one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using the peptide sequence that is
5 at least about 90% identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

9. An isolated antibody having high specificity and high affinity or avidity for a
10 particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the
15 peptide sequence that is the analog to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

10. An isolated antibody having high specificity and high affinity or avidity for a
20 particular GPCR comprising a peptide sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced
25 using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

30 11. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955,
5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270,
10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

12. An isolated antibody specific for a particular GPCR comprising a peptide
15 sequence that is at least about 90% identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679,
20 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using the peptide sequence that is at least about 90% identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086,
25 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 13. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is the analog to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

14. An isolated antibody specific for a particular GPCR comprising a peptide 15 sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 20 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 25 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 15. A kit for the detection of antibodies against the particular GPCR of claim 5 comprising:

a) an isolated antibody according to any one of claims 7-14, and

- b) at least one of a reagent or a device for detecting the antibody.
16. An assay for the detection of a particular GPCR in a sample, comprising:
- a) providing an isolated antigenic peptide according to any one of claims 1-5,
- b) contacting the isolated antigenic peptide with the sample under conditions suitable
- 5 and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific for the particular GPCR present in the sample, to provide an antibody-bound antigenic peptide, and
- c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the sample contains the particular GPCR.
- 10 17. The assay of claim 16 further comprising the step of binding the isolated antigenic peptide or the antibody to a solid substrate.
18. The assay of claim 16 or 17 wherein the sample is an unpurified sample.
19. The assay of any one of claims 15-18 further comprising, prior to the contacting, obtaining the sample from a human being.
- 15 20. The assay of any one of claims 15-19 wherein the assay is selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an
- 20 immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.
21. An isolated nucleic acid molecule encoding an antigenic peptide according to any one of SEQ ID NOS. 692-2292.
22. The isolated nucleic acid molecule according to claim 21 wherein the
- 25 molecule encodes a naturally occurring human antigenic peptide.
23. An isolated nucleic acid molecule encoding an antigenic peptide that is at least about 90% identical to any one of the antigenic peptides set forth in SEQ ID NOS. 692-2292.
24. The isolated nucleic acid molecule according to claim 23 wherein the antigenic peptide is at least about 95% identical to the antigenic peptide.
- 30 25. The isolated nucleic acid molecule according to claim 23 or 24 wherein the molecule encodes a naturally occurring human antigenic peptide.

26. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of SEQ ID NOS. 692-2292 to genomic DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

5 27. A method of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence wherein the antigenic peptide has a length of about 5 to about 100 amino acids, the method comprising:

 a) searching the candidate polypeptide sequence using a comparison window of the length, and

10 b) selecting against amino acid sequences of the length and having at least 3 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising
15 no charged amino acids.

 28. The method of claim 27 wherein the method further comprises selecting against at least 5 of the characteristics.

 29. The method of claim 27 wherein the method further comprises selecting against at least 7 of the characteristics.

20 30. The method of claim 27 wherein the method further comprises selecting against the 9 characteristics.

 31. The method of any one of claims 27-30 wherein the method further comprises:

 c) selecting against amino acid sequences of the length and having at least one of the following additional characteristics 1) sequences having at least 5 consecutive amino
25 acids that are identical to an alternative amino acid sequence from an alternative polypeptide that is different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences.

 32. The method of claim 31 wherein the posttranslational modification sites are phosphorylation or glycosylation sites.

30 33. The method of claim 31 or 32 wherein the method further comprises selecting against at least 2 of the additional characteristics.

34. The method of claim 31 or 32 wherein the method further comprises selecting against the 3 additional characteristics.

35. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

5 36. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST analysis for the candidate polypeptide sequence.

37. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 50 amino acids.

10 38. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 20 amino acids.

39. The method of any one of claims 27-36 wherein the antigenic peptide has a length of about 20 amino acids.

40. The method of any one of claims 27-39 wherein the polypeptide is a protein.

15 41. The method of any one of claims 27-40 wherein the polypeptide is a human protein.

42. The method of any one of claims 27-41 wherein the polypeptide is a naturally occurring protein.

43. An isolated antigenic peptide that is specific for the candidate polypeptide of any one of claims 27-42 that is produced according to the method of any one of claims 27-42.

20 44. An antigenic peptide that is at least about 90% identical to the isolated antigenic peptide of claim 43.

45. An isolated antigenic peptide that is an analog of the isolated antigenic peptide of claim 43.

25 46. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids of the isolated antigenic peptide of claim 43.

30 47. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids of the isolated antigenic peptide of claim 43.

48. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 in a sample comprising:

a) an isolated antigenic peptide according to any one of claims 43-47 and derived from the candidate polypeptide, and

b) at least one of a reagent or a device for detecting the antibodies.

49. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 43, wherein the antibody was produced using the isolated antigenic peptide of claim 43.

50. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 44, wherein the antibody was produced using the isolated antigenic peptide of claim 44.

51. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 45, wherein the antibody was produced using the isolated antigenic peptide of claim 45.

52. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 46, wherein the antibody was produced using the isolated antigenic peptide of claim 46.

53. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 47, wherein the antibody was produced using the isolated antigenic peptide of claim 47.

54. The isolated antibody of any one of claims 49-53 wherein the antibody has high specificity and high affinity for the candidate polypeptide.

55. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 comprising:

a) an isolated antibody according to any one of claims 49-53, and

b) at least one of a reagent or a device for detecting the antibody.

56. An assay for the detection of a candidate polypeptide in a sample, comprising:

a) providing an isolated antigenic peptide according to any one of claims 43-47,

b) contacting the isolated antigenic peptide with the sample under conditions suitable and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific for the candidate polypeptide present in the sample, to provide an antibody-bound antigenic peptide, and

c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the sample contains the candidate polypeptide.

57. The assay of claim 56 further comprising the step of binding the isolated antigenic peptide or the antibody to a solid substrate.

58. The assay of claim 56 or 57 wherein the sample is an unpurified sample.

59. The assay of any one of claims 56-58 further comprising, prior to the
5 contacting, obtaining the sample from a human being.

60. The assay of any one of claims 56-59 wherein the assay is selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
10 immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

61. An isolated nucleic acid molecule encoding an antigenic peptide according to any one of claims 43-47.

15 62. The isolated nucleic acid molecule according to claim 61 wherein the molecule encodes a naturally occurring human antigenic peptide.

63. An isolated nucleic acid molecule encoding an antigenic peptide that is at least about 90% identical to any one of the antigenic peptides set forth in claims 43-47.

64. The isolated nucleic acid molecule according to claim 63 wherein the
20 antigenic peptide is at least about 95% identical to the antigenic peptide.

65. The isolated nucleic acid molecule according to claim 63 or 64 wherein the molecule encodes a naturally occurring human antigenic peptide.

66. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of claims 43-47 to genomic
25 DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	SpeciesName
526	160397	Larophilin-2	NP_036434.1	<p>MVSSGCRMRS LWFIIVISFL PNTEGFSRAA LPFGLVRREL SCEGYSIDLR CPGSDVIMIE SANYGRITDDK ICDADPFQME NIDCYLPDAF KIMTQRCNNR IQCIWVVTGSD VFDPDPCGTY KYLEVQYECV PYIFVCPGTL KAIVDSPCIY EAEQKAGAWC KDPLQAADKI YFMPWTPYRT DILEYASLE DFQNSRQITIT YKLPNRVDGT GFVYDGAVF FNKERTNIV KFDLRTRIKS GEAIINYANY HDTSPYRWGG KITIDLA VDE NGLWVIYATE QNNGMIVISQ LNPYTLRFEA TWETVYDKRA ASNAFMICGV LYVVRSVYQD NESETGKNSI DYTYNTRLNR GEYVDVVPFPN QYQYIAADV NPRDNQLYVW NNNFILRYSL EFGPPDPAQV PTTAVTITSS AELFKTIIST TSTTSQKGPV STTVAGSQEG SKGTPKPPAV STTKIPPTIN IFPLPERFCE ALDSKGIKWP QIQRGMMVER PPKGTRGTA SYLCMISTGT WNPKGPDLSN CTSHWVNQLA QKIRSGENAA SLANELAKHT KGPVFA GDVS SSVRLMEQLV DILDAQLQEL KPSEKDSAGR SYNKAIVDTV DNLLRPEALE SWKHMNSSEQ AHTATMLLDT LEEGAFVLAD NLEPTRVSM PTENIVLEVA VLSTEGQIQD FKFPLGIKGA GSSIQLSANT VKQNSRNGLA KLVIYIRSL GQFLSTENAT IKLGADFIGR NSTIAVNSHV ISVSINKESS RYVLTDPVLF TLPHPDPNY FNANCSFWNY SERITMMGYWS TQCKLVDTN KTRITTCACSH LTNFAILMAH REIAYKDGCVH ELLLTVITWV GIVISLVCLA ICIFTCFFR GLQSDRNTIKNLCINLFIA EFIFLIGIDK TKYAIACPIF AGLLHFFFLA AFAWMCLEGV QLYLMLVEVF ESEYSRKKYY YVAGYLFPAT VVGVSAAIDY KSYGTEKACW LHVDNYFIWS FIGVTFIIL LNIIFLVITL CKMVKHSNTL KPDSSRLNI KSWVLGAFAL LCLLGLTWSF GLLFINEETI VMA YLFTIEN AFQGVFIIF HCAIQKKVRK EYKCFRHSY CCGGLPTESP HSSVKASTTR TSARYSSGTQ SRURRMWNDT VRKQSESSFI SGDINSTSL NQGHSLNNAR DTSAMDITLP NGNFNNSYSL HKGDYNDVSQ VVDCGLSLND TAFEKMIISE LVHNNLRGSS KTHNLELTL VPVIGGSSS EDDAIVADAS SLMHSNDNPL ELHKKLEAP LIPQRTSHLL YQPKKKVKSE GTDSYVSQLT AEADHLQSP NRDSLVTSM NLRDSPYTES SPDMEEDLSP SRRSENEIDY YKSMNPNLGAG HQLQMCYQIS RGNSDGYIIP INKEGCIPEG DVREGQMQLV TSL ccgcgcctgg gagacagca gccagagctt ggggttgtt gcagagcca cggcgggggc tggggcgagt ggcgcgcag gctgaaggct gcgcctciga acctgaaga ggcctcgaat tgaagagcca gggacagagga gacgggtgcg atggcagagc gcggccccc cgcctcggcc gggccggccc ggcctggcttg agccgcgcga ggaagcgggc tgcctctggc cgtccatgga gcagcgggaa gggcgaaact ccggaagccc gcgtccctgc gccctcggcg cggactcgtg aagggggccga gccgcgcgg aaccgcgagg aagagacccc cgcctcagcc ccagagcccgg cgcgcggggc acatcgagg gcaagcggagc gaagcagccc gcggagagag ccggcgagg agggcgccc gcgaatggcc ggcctcgttg ggcctcgttg cttccctggc ctggggctgc tggctcgggc cggggccagc ggcgcggccc cgcctctctg cgcgcggccc tgcagctcgg accggcgaccg tcgggtggac tgcctcggga agggggctgac gggcgggccc gaggggctca gcgctcac ccaagcgcgt gatatcagta tgaacaac tactcagttg ccagagag cattaagaa cttccitt ctaagagag tacaatggc gggcaacgac cttcttta tccaccacaa ggcctctgtt ggggtgaag aactcaagt tcaacgctc caaataac agtgaaac agtacccagt gaagccattc gaaggcctgag tcttgcag tcttgcgt tagatgcaa ccatattacc tcaatcccg aggaagattt tgaaggactt</p>	P	Homo sapiens
527	160411	G Protein-Coupled Receptor GPR48	NM_018490		A	Homo sapiens

[illegible]

528	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	<p>atgttatttaa taanaataaga agaagaaga alaaagctta gtctgtgtc ttzaanaait aaaaatttta ctgtattcc alctatgggc tttaagaccta ttactgggtc gtagcttaaa gtataatg ttcaatagt tttagaaca ggtgtgtaaa tcaalagcaa accacatggcc atattagtta ttctgaalat actaanaaaa tccagctaga ttgcagtta ataatnaaac tglacatact gtagcataaa tgaatttta ttctatgtaa attatttta gaacacaagt tgggaaagt ggccttgt catttgtt aattaaagct acctoctaaa ctatagtggc tgccagtgc agactgttaa atttgttt ataatcttt tgcattgtaa atagtcttg ttgataatg tcaagttaat aaaaacagaa ttcttgata tcaaatcat gtagttgta taaaatgg gaagattia ttacagtgt gttgzaatt tgaagggcca actatttaca agttitaaa atgtctatca tglatttta cacatctgt aatatiaaa tcaataatg gtaagaaact octaatiaaa aggttttc caaatitcag gttattgaaa attttcatt ttattcatt aaaaactaga ataacagata taaaagtg ttaacttg tctatagg taigaataac aatatgttac tcaagtgtt gaattataa agttctaga aagcaaaaa a</p> <p>MPGFLGLLCF LALGLLSAG PSGAAPPLCA APCSCDGD RR VDCSGKGLTA VPEGLSAFTQ ALDISMNNIT QLPEDAFKNF PFLHELQLAG NDLSFHPKA LSGLKELKV TLQNNQLKTV PSEAIRGLSA LQSLRLDANH ITSVPDSFE GLVQLRHL WL DDNSLTEVPV HPLSNLPTLQ ALTLALNKIS SIPDFAFTNL SSLVVLHLHN NKIRGLSQHC FDGLDNLET L DLSYNNLGEF PQAIKARPSL KELGFHSNSI SVIPDGA FDG NPLLRJTHLY DNPLSFVGN ASHNLSDLHS LVIRGASMVQ QFPNLGTGVH LESLTLTGTK ISSPNNLQC EQKMLRTLDL SYNNIRDLPS FNGCHALEEI SLQRNQYQI KEGTFQGLIS LRULDLSRNL IHEHSRAFA TLGPITNL DV SFNELTSFT EGPNGLNQLK LVGNFKLKEA LAAKDFVNLR SLSVPYAQC CAFWGCDSA NLNTEDNSLQ DHSVAQEKGT ADAANVTSTL ENEHSQIII HCTPSTGAFK PCEYLLGSWM IRLTVWFIL VALFNLLVI LTTFASCTSL PSSKLFGLI SVSNLFMGIY TGIL TFLDAV SWGRFAEFGI WWETGSGCKV AGFLAVFSSE SAIFLLMLAT VERSLSAKDI MKNGKSNHLK QFRVAALSAF LGATVAGCFP LFRGEYSAS PLCLPFTGE TFSLGFTVTL VLLNSLAFL MAVYTKLYC NLEKEDLSEN SQSSMKHVA WLFNCFIP CPVAFFSFAP LITAISISPE IMKSVTLIFF PLPACLNPLV YVFFNPKFKE DWKLLKRRVT KKS GSVSVSI SSQGGCLEQD FYDQGMYSH LQGNLTVDCD CESFLLTKPV SCKHLIKSHS CPALA VASQ RPEGYWSDCG TQSAHSDYAD EEDSFVSDSS DQVQACGRAC FYQSRGFPLV RYAYNLPRVK D</p> <p>aacttggaagg gcaagccgtc gccgccaacg aacacatct caagcadt tt gtagtgaacc ggtgtgcaag ctgggtggctg gccccccgag tccggggctc tgaaggcacgg ccgtcgaact aagcgttga tccgtgtacc tggagaacct ctgagctctc acctgtact tctggcgtc ctctgcaaca gaggccgggc gtaggacacct ccagtgatga ggttcccgaaac agcacccggcc cgagacaagc gacgtctgcaag atgtctggcgga accggcgat cgggtgtggcc ctggccgtgg tgtactcgt ggttgccggccg gtcagcalcc cgggcaacct ctctctctg tgggtgtctgt gccggcgcat ggggccaaga tcccgtgtgg tcatctcat gatcaacct ggcgtcacgg acctgatgt ggcagcgctg ttgcctttcc aaattacta ccattgcaac cgccacact gggtattcgg ggtgtgtct tgcacagtgg tgaocgtggc cttnaogca aacatgatt ccagcatct catcatgacc tgtatcagcg tggagcgtct octgggggtc ctgtaccgc tcaactocaa ggcctggcgcc cggcatcgtt accggtgtggc cgcggtgtga ggggacctggc tgcctctct gacccgtccctg tcccgtcccg cggcgcaocga tctcaodtac ccgggtgcaag ccctggggcat catcacctgc ttgcagctcc tcaagtggac gtagctccoc agcgtggcca tgggtggccgt gttctcttc accatctca tccgtgtt cctatccc ttgcgtatca ccgtggcttg ttacacggcc acctatcta agcgtgtgg cacggagaggag gcgcacggcc gggagcagcg gtaggcgcgc gtaggcgtgg ctgtggcc ttgtacact</p>	P	Homo sapiens
529	160435	LS160435 Receptor	AX147830	<p>atgttatttaa taanaataaga agaagaaga alaaagctta gtctgtgtc ttzaanaait aaaaatttta ctgtattcc alctatgggc tttaagaccta ttactgggtc gtagcttaaa gtataatg ttcaatagt tttagaaca ggtgtgtaaa tcaalagcaa accacatggcc atattagtta ttctgaalat actaanaaaa tccagctaga ttgcagtta ataatnaaac tglacatact gtagcataaa tgaatttta ttctatgtaa attatttta gaacacaagt tgggaaagt ggccttgt catttgtt aattaaagct acctoctaaa ctatagtggc tgccagtgc agactgttaa atttgttt ataatcttt tgcattgtaa atagtcttg ttgataatg tcaagttaat aaaaacagaa ttcttgata tcaaatcat gtagttgta taaaatgg gaagattia ttacagtgt gttgzaatt tgaagggcca actatttaca agttitaaa atgtctatca tglatttta cacatctgt aatatiaaa tcaataatg gtaagaaact octaatiaaa aggttttc caaatitcag gttattgaaa attttcatt ttattcatt aaaaactaga ataacagata taaaagtg ttaacttg tctatagg taigaataac aatatgttac tcaagtgtt gaattataa agttctaga aagcaaaaa a</p> <p>MPGFLGLLCF LALGLLSAG PSGAAPPLCA APCSCDGD RR VDCSGKGLTA VPEGLSAFTQ ALDISMNNIT QLPEDAFKNF PFLHELQLAG NDLSFHPKA LSGLKELKV TLQNNQLKTV PSEAIRGLSA LQSLRLDANH ITSVPDSFE GLVQLRHL WL DDNSLTEVPV HPLSNLPTLQ ALTLALNKIS SIPDFAFTNL SSLVVLHLHN NKIRGLSQHC FDGLDNLET L DLSYNNLGEF PQAIKARPSL KELGFHSNSI SVIPDGA FDG NPLLRJTHLY DNPLSFVGN ASHNLSDLHS LVIRGASMVQ QFPNLGTGVH LESLTLTGTK ISSPNNLQC EQKMLRTLDL SYNNIRDLPS FNGCHALEEI SLQRNQYQI KEGTFQGLIS LRULDLSRNL IHEHSRAFA TLGPITNL DV SFNELTSFT EGPNGLNQLK LVGNFKLKEA LAAKDFVNLR SLSVPYAQC CAFWGCDSA NLNTEDNSLQ DHSVAQEKGT ADAANVTSTL ENEHSQIII HCTPSTGAFK PCEYLLGSWM IRLTVWFIL VALFNLLVI LTTFASCTSL PSSKLFGLI SVSNLFMGIY TGIL TFLDAV SWGRFAEFGI WWETGSGCKV AGFLAVFSSE SAIFLLMLAT VERSLSAKDI MKNGKSNHLK QFRVAALSAF LGATVAGCFP LFRGEYSAS PLCLPFTGE TFSLGFTVTL VLLNSLAFL MAVYTKLYC NLEKEDLSEN SQSSMKHVA WLFNCFIP CPVAFFSFAP LITAISISPE IMKSVTLIFF PLPACLNPLV YVFFNPKFKE DWKLLKRRVT KKS GSVSVSI SSQGGCLEQD FYDQGMYSH LQGNLTVDCD CESFLLTKPV SCKHLIKSHS CPALA VASQ RPEGYWSDCG TQSAHSDYAD EEDSFVSDSS DQVQACGRAC FYQSRGFPLV RYAYNLPRVK D</p> <p>aacttggaagg gcaagccgtc gccgccaacg aacacatct caagcadt tt gtagtgaacc ggtgtgcaag ctgggtggctg gccccccgag tccggggctc tgaaggcacgg ccgtcgaact aagcgttga tccgtgtacc tggagaacct ctgagctctc acctgtact tctggcgtc ctctgcaaca gaggccgggc gtaggacacct ccagtgatga ggttcccgaaac agcacccggcc cgagacaagc gacgtctgcaag atgtctggcgga accggcgat cgggtgtggcc ctggccgtgg tgtactcgt ggttgccggccg gtcagcalcc cgggcaacct ctctctctg tgggtgtctgt gccggcgcat ggggccaaga tcccgtgtgg tcatctcat gatcaacct ggcgtcacgg acctgatgt ggcagcgctg ttgcctttcc aaattacta ccattgcaac cgccacact gggtattcgg ggtgtgtct tgcacagtgg tgaocgtggc cttnaogca aacatgatt ccagcatct catcatgacc tgtatcagcg tggagcgtct octgggggtc ctgtaccgc tcaactocaa ggcctggcgcc cggcatcgtt accggtgtggc cgcggtgtga ggggacctggc tgcctctct gacccgtccctg tcccgtcccg cggcgcaocga tctcaodtac ccgggtgcaag ccctggggcat catcacctgc ttgcagctcc tcaagtggac gtagctccoc agcgtggcca tgggtggccgt gttctcttc accatctca tccgtgtt cctatccc ttgcgtatca ccgtggcttg ttacacggcc acctatcta agcgtgtgg cacggagaggag gcgcacggcc gggagcagcg gtaggcgcgc gtaggcgtgg ctgtggcc ttgtacact</p>	A	Homo sapiens

[illegible]

538	161221	Urotensin-II Receptor (GPR14)	NP_061822.1	P	Homo sapiens
<p>ctgggctgc ttctggctgc gcaagctgc gccacagctac accagggccc gctggggccc cggagggcgc gcatgctca clactgacc accgctca cctacggcaa cagctggcc acccccttc tctacagct gctacacgg aactaccgg accctcgc cggccggc cggccggc gcaaggggg agggccgggg cccgttctt cctgcaagcc ccggccgc ttacagct gttcggcc cctctgct tctgcaag cagagccac tgaagcctc gtcctggccc cagggccc gggcagct gggccggg gccacgggc cccggcga MALTPESPSS FPGLAATGSS VPEPPGPNA YTLVTCRSL RAVASMYVYV VNLALADLLY TGTTGILLSA MGVGWVGNA YTLVTCRSL RAVASMYVYV VNLALADLLY LLSIPFIVAT YVKEWHFVGD VGCRLVFLGD FLTMHASIFT LTVMSERYA AVLRPLDTVQ RPKGYRKL LA LGTWLLALL TLPVMLAMRL VRRGPKSLCL PAWGPRAHRA YLTLLFATSI AGPLLIGLL YARLARAYRR SQRASFKRAR RPGARALRLV LGVLLFWAC FLFWLWQL AQYHQAFLAP RTARIVNYLT TCLTYGNSCA NPFLYTLTR NYRDHLRGRV RGPSSGGGRG PVPSLQPRAR FQRCSGRSL SCSFQPTDSL VLAPAAPARP APEGPRAPA atggctgca atggcagtc ggcaggggg cacttgacc ctgaggaact gaactgact gaagagggcac tgaactcaa gtactgggg ccacagcaga cagagctglt cagcccaic tggccacat accgtgcat ctctgggtg gggcgtggtg gcaatgggt gactctgt gtaactgc gccacagc cagcccaic ctaacact actactt cagctggcc gtgctgacc tctgtgct gctggggc ctggccctg agctctaga gattgggac aactacact tctctggg cgtgggtg tctattcc gcaagctat gttggatg gctgctgg cctcagct caagctat gcttggagc tggagccta tggccggc ggcacacc tccagccag gtccatggg accggggcc atggccggc agtctggg ggcctggg gctgctat gctgctat ctggccaca cagctgca cggcctgg cagctggcag tccctggcc ggccacag cagactcag ctgttgcat gctggctgc ccacggggc lctacacat gttatggcag accacggcc tctctctt ctggccacc tgaagcact tgaagctgt clactgct atggctgct gactggggc ggaagagggc ctgctcagc aggaaggcca gggcagggc tctgagcag cagctgca atacactg aggtctcagc agcagatg ggccgggaga cagtgagca agatgctgt tctgtgct gttgtgtt gcatctgt gggccggc cagccgac gctcagtg gaggctgt tccagtgga cagatggct gcaactggc ttccagcag tgcagctat ctccggcag ttctctac tgggtggc ggcacccc gttctctata gctcagc cagccgct cgaagagact tccagggc cctgtgctt ggggctgt gctatggct cagacccc cagagctcc acagctcag cagatgac accagggc ccctgtga tggggctt cgggcagct gggccaccc cctggctggg aacagggcc cagagggac gactcact ga MACNGSAARG HFDPEDLNL TDEALRLKYL GQQTELFPPI CATYLLIFV GAVGNGLTCL VILRHKAMRT PTNYLFLSLA VSDLLVLL VG LPLELYEMWV NYPFLGVGG CYFRTLLFEM VCLASVLNVT ALSVERYVAV VHPLQARSMV TRAHVRRVLG AVWGLAMLC LPNTSLHGR QLVHPCRGPV PDSAVCMVLR PRALYNMVVQ TTALLFFCLP MAIMSVLYL IGLRLRRRL LLMQEAAGR SAAARSRYTC RLQHQDRGR QVTKMLFVL VVFGICWAPF HADRVMWSV SQWTDGLHLA FQHVHVISGI FFYLGSAANP VL YSLMSSRF RETFQALCL GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSVWHPLAG NDPEAQQUET DPS atggctaac ttgacaata cactgaaca ttcaagtg gtagcaacag taccagcat gctgagatt actgaatg cactaagtg aaattcaat actcctcta tgcacacac tatctctca tatctctc tggctctg gtaacagtg cagctgtg ggtctgtg cgtctatca gcaagaaaaa taaagccac atttcaaga tcaaccttc tgggtgac ctgtctatg tattatctt</p>					
539	161249	G Protein- Coupled Receptor GPR66	NM_006056	A	Homo sapiens
540	161249	G Protein- Coupled Receptor GPR66	NP_06047.1	P	Homo sapiens
541	161251	Purinergic Receptor P2Y10	NM_014499	A	Homo sapiens

542	161251	Purinergic Receptor P2Y10	NP_055314.1	<p> aocctccgg atttactatt acaicagaca ccactggcct ttccagagag cctttgctt gctcgtctc tacttgaagt atctcaacat gtatccagc attgttcc tgaagtgcat cagtctcaaa agtgctcttt tictctcaa gcccttcagg gccagagact ggaagcgtag gtacagtg ggcacagtg ctgctcgtg gtagcttg gggactgctt gtttgcat ttccatctg agaaagcacag acttaacaa caacagctc tgccttgctg atcttgata caagcaaatg aatgagctg cgttggtcgg gattattaca gttctgagc ttgcaaggatt tggatocaa ggtatcata tggcagtggt tacttgaaa actactat ccttgagaca gccacacag gcttccaaag ggatcagta gaggcagaaa gcatcgagga tgggttgat ggttgctga gcttctca tctgtctac tccatcatc attaacctta ttttacac catgglaaag gaaaocalca ttgagcagtg tccgttgctc cgaatcgcac tggatttoca cctttttgct ctgtgcttg caagctctg ctgctttg gttccaatc ttattact tatggctca ggttttgctg accaatat ccggacatggc agttctgta ccgtcccg cctatgagc aaggagagtg gttacat gtttgctaa MANLDKYTET FKMGSNSTST AEIYCNVTNV KFQYSLYATT YLIFIPGLL ANSAALWVLC RFISKKNKAI IFMNLVSAD LAHVLSLPLR IYVYISHHWP FQALCLLCF YLYKYNMYAS ICFLTCTISLQ RCFFLLKPFAR ARDWKRRYDV GISAAIWVV GTACLPFPL RSTDLNNKS CFADLYKQM NAAVALVGMIT VAELAGFVVP VIIAWCTWK TTISLRQPPM AFQGISERQK ALRMVFMCAA VFFICFTPYH INFIFTMVK ETIISPCPV RIALYFHPFC LCLASLCCLL DPILYYFMAS EFRDQLSRHG SSVTRSLMS KESGSSMIG MATTSATSTV NISSLATMT TNFTSLTSTV VTTIASLVPS TNSEDDYYDD LDDVDYEESA PCYKSDTTRL AAQVVPALYL LVFLGGLGN ILVVIIVRY MKIKNLINML LNLALSDLL FLTLFPWMH YIGMYHDWTF GISCLKLRG VCYMSLYSQV FCILLTVDR YLAVVYAVTA LRFRTVTCGI VTCVCTWFLA GLLSLPEFFF HGHQDDNGRV QCDPYPEMS TNVWRRAHVA KVMLSLILP LLIMAVCYV IRRLLRRPS KKKYKAIRLI FVMVAYFVF WTPYNIIVLLL STFHATLLNL QCALSSNLDL ALLTKTVAY THCCINPVY AFVGEKFRRH LYHFFHTYVA IYLCYIPFL SGDGEGKEGP TRI ggcagaaccc cgaatgagcc cggccacagg ggtcccccga cctggccgct cctggccggcgg gctcgtcggct ccggcgccac gggctggcc cccatggctt cggcccgccgg gaaactgagc gctggggccgg gctgggggggg gctggccggccg gccggcgctga ggaaactgac ctctcccccgg gcccggacgg cgtcccgct cccggccccc tgggggagc cctggccggc cccggccccc ggccacccgt tctggcagcc gccctggggcc gggcgctct ggtcgctggc ctacggcgcc gggggggcgg tggcggggct cggcaacctc ggggtggtat ggtatggctt ggccacaaag cgtatggcgga cggctaccaa ctcttctc gttgaacctgg ccttcggga cggcccgctca acggcgctgt caactcalt tacggcgctc acggcgagtg gttactggc ggcaactact ggccgttoca gaaactctt cccatcaagg ccgtgttggc cagctatctac tccatggagg ccatggcggt ggacagatcac atggccaltta ttgaacccct gaaagccaggg ctgtctgcca cgggcccacccg gactgtcatt ggaaagctat ggatctggc atttactt gcaattctc agtgtctgta ttcaaaaic aaagtcaltg caggccggctac tctttgctac gttgcaaggc caggaaaggct aaggcaacat ttacgttacc acatgaltgt cactgtctgt gttgactgct ttcttgct cactatgggc altcaatca ccatagttg aatcacgctc tgggggaggg agatcccccgg agacacccctt gaaacagttacc agggagcagct gaaagggccaaag gggaaggggt taaaatgaa gactatgt gttgtgact ttgccaatg ctggctggcc taccacatc acttactt caccggccatc tatcagcagc tgaacaggtt gaaatcacat cagcaggtct accgtggccag ctatggctgg gttactggct cgaacatgta caacccatc alttactgt gcttgaaataa gaaatgtgt gctggggcttca agaaagggctt cggctggggc ctttactt accgttccag ctacggagcag ctggggagctca aaggccacag gcttccacca atgggagacga gaaagccatla caccgtgaca agaatggagt ccatggagctt gggtatcgac tcaacagatg gggaacagctc caggttccat caccagaaata gaaagggagac cagaaagcgtta </p>	P	Homo sapiens
543	161293	G Protein- Coupled Receptor Ls161293 [Herpes virus]	NP_042597.1	<p> MATTSATSTV NISSLATMT TNFTSLTSTV VTTIASLVPS TNSEDDYYDD LDDVDYEESA PCYKSDTTRL AAQVVPALYL LVFLGGLGN ILVVIIVRY MKIKNLINML LNLALSDLL FLTLFPWMH YIGMYHDWTF GISCLKLRG VCYMSLYSQV FCILLTVDR YLAVVYAVTA LRFRTVTCGI VTCVCTWFLA GLLSLPEFFF HGHQDDNGRV QCDPYPEMS TNVWRRAHVA KVMLSLILP LLIMAVCYV IRRLLRRPS KKKYKAIRLI FVMVAYFVF WTPYNIIVLLL STFHATLLNL QCALSSNLDL ALLTKTVAY THCCINPVY AFVGEKFRRH LYHFFHTYVA IYLCYIPFL SGDGEGKEGP TRI ggcagaaccc cgaatgagcc cggccacagg ggtcccccga cctggccgct cctggccggcgg gctcgtcggct ccggcgccac gggctggcc cccatggctt cggcccgccgg gaaactgagc gctggggccgg gctgggggggg gctggccggccg gccggcgctga ggaaactgac ctctcccccgg gcccggacgg cgtcccgct cccggccccc tgggggagc cctggccggc cccggccccc ggccacccgt tctggcagcc gccctggggcc gggcgctct ggtcgctggc ctacggcgcc gggggggcgg tggcggggct cggcaacctc ggggtggtat ggtatggctt ggccacaaag cgtatggcgga cggctaccaa ctcttctc gttgaacctgg ccttcggga cggcccgctca acggcgctgt caactcalt tacggcgctc acggcgagtg gttactggc ggcaactact ggccgttoca gaaactctt cccatcaagg ccgtgttggc cagctatctac tccatggagg ccatggcggt ggacagatcac atggccaltta ttgaacccct gaaagccaggg ctgtctgcca cgggcccacccg gactgtcatt ggaaagctat ggatctggc atttactt gcaattctc agtgtctgta ttcaaaaic aaagtcaltg caggccggctac tctttgctac gttgcaaggc caggaaaggct aaggcaacat ttacgttacc acatgaltgt cactgtctgt gttgactgct ttcttgct cactatgggc altcaatca ccatagttg aatcacgctc tgggggaggg agatcccccgg agacacccctt gaaacagttacc agggagcagct gaaagggccaaag gggaaggggt taaaatgaa gactatgt gttgtgact ttgccaatg ctggctggcc taccacatc acttactt caccggccatc tatcagcagc tgaacaggtt gaaatcacat cagcaggtct accgtggccag ctatggctgg gttactggct cgaacatgta caacccatc alttactgt gcttgaaataa gaaatgtgt gctggggcttca agaaagggctt cggctggggc ctttactt accgttccag ctacggagcag ctggggagctca aaggccacag gcttccacca atgggagacga gaaagccatla caccgtgaca agaatggagt ccatggagctt gggtatcgac tcaacagatg gggaacagctc caggttccat caccagaaata gaaagggagac cagaaagcgtta </p>	P	Equine herpesvnu s 2
544	177147	Neuromedin K Receptor-Like (NK-4R)	NM_006679	<p> MATTSATSTV NISSLATMT TNFTSLTSTV VTTIASLVPS TNSEDDYYDD LDDVDYEESA PCYKSDTTRL AAQVVPALYL LVFLGGLGN ILVVIIVRY MKIKNLINML LNLALSDLL FLTLFPWMH YIGMYHDWTF GISCLKLRG VCYMSLYSQV FCILLTVDR YLAVVYAVTA LRFRTVTCGI VTCVCTWFLA GLLSLPEFFF HGHQDDNGRV QCDPYPEMS TNVWRRAHVA KVMLSLILP LLIMAVCYV IRRLLRRPS KKKYKAIRLI FVMVAYFVF WTPYNIIVLLL STFHATLLNL QCALSSNLDL ALLTKTVAY THCCINPVY AFVGEKFRRH LYHFFHTYVA IYLCYIPFL SGDGEGKEGP TRI ggcagaaccc cgaatgagcc cggccacagg ggtcccccga cctggccgct cctggccggcgg gctcgtcggct ccggcgccac gggctggcc cccatggctt cggcccgccgg gaaactgagc gctggggccgg gctgggggggg gctggccggccg gccggcgctga ggaaactgac ctctcccccgg gcccggacgg cgtcccgct cccggccccc tgggggagc cctggccggc cccggccccc ggccacccgt tctggcagcc gccctggggcc gggcgctct ggtcgctggc ctacggcgcc gggggggcgg tggcggggct cggcaacctc ggggtggtat ggtatggctt ggccacaaag cgtatggcgga cggctaccaa ctcttctc gttgaacctgg ccttcggga cggcccgctca acggcgctgt caactcalt tacggcgctc acggcgagtg gttactggc ggcaactact ggccgttoca gaaactctt cccatcaagg ccgtgttggc cagctatctac tccatggagg ccatggcggt ggacagatcac atggccaltta ttgaacccct gaaagccaggg ctgtctgcca cgggcccacccg gactgtcatt ggaaagctat ggatctggc atttactt gcaattctc agtgtctgta ttcaaaaic aaagtcaltg caggccggctac tctttgctac gttgcaaggc caggaaaggct aaggcaacat ttacgttacc acatgaltgt cactgtctgt gttgactgct ttcttgct cactatgggc altcaatca ccatagttg aatcacgctc tgggggaggg agatcccccgg agacacccctt gaaacagttacc agggagcagct gaaagggccaaag gggaaggggt taaaatgaa gactatgt gttgtgact ttgccaatg ctggctggcc taccacatc acttactt caccggccatc tatcagcagc tgaacaggtt gaaatcacat cagcaggtct accgtggccag ctatggctgg gttactggct cgaacatgta caacccatc alttactgt gcttgaaataa gaaatgtgt gctggggcttca agaaagggctt cggctggggc ctttactt accgttccag ctacggagcag ctggggagctca aaggccacag gcttccacca atgggagacga gaaagccatla caccgtgaca agaatggagt ccatggagctt gggtatcgac tcaacagatg gggaacagctc caggttccat caccagaaata gaaagggagac cagaaagcgtta </p>	A	Homo sapiens

[illegible]

545	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	NP_006670.1	<p>taaataat taaaataat atgaaaaat</p> <p>MASPAAGNL SA WPGWGWPPPA ALRNLTSSPA PTASPSAPS WTPSPRCPA HPFLQPPWAV ALWSLAYGAV VAVAVLGNLV VIVIVLAHKKR MRTVTNSFLV NLAFADAAMA ALNALVNFIY ALHGEWYFGA NYCRFQNFEP ITAVFASIYS MTAIAVDRYM AIDPLKPRLL SATATRIVIG SIWILAFLLA FPQCLYSKJK VMPGRTL CYV QWPEGSRQHF TYHMMIVLV YCFPLLMIG TYTIVGITLW GGEIPGDTCD KYQEQLKAKR KVKMMIUV VFAICWLPY HIYFILTAIY QQLNRWKYIQ QVYLASFULA MSSTMVNPPI YCCLNKRFRFA GKRAFRWCP FIHVSSYDEL ELKATRLHPM RQSSLYTVTR MESMSVVFDS NDGDSARSSH QKRGITTRDVG SNVCSRRNSK STSTTASFVS SSHMSVEEGS</p>	P	Homo sapiens
546	177168	Cysteinyl Leukotriene CYSLTI Receptor	NM_006639	NM_006639	<p>atggatgaaa caggaaaatc gacagtaatc tctgccaat gocatgacac tatgtatgac ttcgcaatc aagigtatic cacttgitac tctatgatc ctgtgtagc cttctggc aatggcttg tgcctatgt cctcataaaa accatacaca agaagtcacg ctccaagta tactatgata attagcagt agcagatcta cttgtgtgt gacacatgoc tctc-gtgc gctattatg ttccaaaagg catgtggctc ttgggtgact tctgtgocg ctcagatcac talgcttgt atgtcaacct ctatgtgac aicctttha tgcagatccat gtagcttttc cgggtgcatg caatgttnt tccatgccag aacatthaatt tggttacaca gaaaaaagoc aggttttgt gttgtatgtat ttggatttt gtgatttga ccagtctoc atttcaatg gocaataccac aaaaagatga gaaaaataat accaagtgtc ttgagccccc acaaagacaat caaactaaaa atcatgttnt ggtctgtgcat talgtgtcat tgtttgtgg cttaatcact cetttgtta ttaatagt ctgttacaca algtacatt tgaacttact aaaaaataca atgaaaaaaa atctgttcaag tcaataaagg gctataggaa tgcatagtt cgtgacccgt gcccttttag tcaatgtcat gcatatcat attcaacga ccatcaacct tcaatttita cacaatgaaa ctataaccg tgattctgtc cttagaatgc agaagtcctgt ggtcataaac ttgtctctgg ctgcatccaa ttgtgtctt gacccctcctc tatattcti ttctgggtgt aactttagg aagagctgtc tactatcaga aatgcatct tgcacaggt gacttatga cccaagaaga aggcctctt gccagaaaaa ggaagaagaa talgtaaagt atag</p> <p>MDETGNLTVS SATCHDTDD FRNQVYSTLY SMISVVGFFG NGFVLYVLK TYHKKSFAQV YMINLA VADL LCVCTLPLRV VYVYHKGIWL FGDFLCRLST YALYVNL YCS IFEMTAMSF RCIAIVFPVQ NINLVTKKA RFV/CVGIWF VILTSSPFLM AKPQKDEKNN TKCFEPPQDN QTKNHVL VLH YVSLFVGFII PFVIIVCYT MIIL.TLLKKS MKKNLSSHKK AIGMIMVVTA AFLVSFMPYH IQRTHLHFL HNETKPCDSV LRMOQS VVIT LSLAASNC CF DPLL YFFSGG NFRKRLSTFR KHSLSSTVTV PRKKASLPEK GEEICKV</p>	A	Homo sapiens
547	177168	Cysteinyl Leukotriene CYSLTI Receptor	NP_006630.1	NP_006630.1	<p>ccacgcgtcc ggcgggtgca cggctgcaccc ggcagcggctc caggctccgg ctactctcc gctgtcagcag ccggcgctgccc ggccccactg ggtctcggtc cggcccccgg ccctctgggca ccgctctgtc tggccccggc cccggccccg cggaccatgc gctggggccc ccaggggggaa acccgatccc gccaaggggcc cgcacaagatgc aggtctccccc gccaaggggccc ctcccggccc cccaagctctc ggcccggccc ctggccccgg tcccggggccc gctgtgaagctt gctggggggccat ggagcggcgcc cggccccgacg ggccgctgaa cgtctggggg gctgtggggg gctgtggggg ggcggcgggg ggcggcgggg gctctcggc agctgtggac gctgtgtgtc cggcgctcat gctgtgtc atcgtggcca cgggtgtggg caatgcggc gctatgtc cctctgtg cgactgtgac ctccgcaacc agaacacti ctctgtctc aactgtgcca tctccgacti cctctgtg gctctgtg tccactgtga tgaactac gttgtgtgac gtcgggtggac ctccggcccgg ggcctctgtga agctgtgtg gttgtgtgac taactgtgt gcaactctc tgccttcaac atcgtgtgca tgcgtgtgca ccgtctctg tgggtgtgac gtagcggctc ataccggggc cagcaggggg acacggggg ggcaggggg aagatgtgtc tgggtgtg gctgtgtg gctgtgtg gacacagcat cctgtgtgtg gttgtgtgt cccggggggc ctccatccc gtagggggc gctatgtgac gttctgtac</p>	P	Homo sapiens
548	177191	Histamine H3 Receptor	NM_007232	NM_007232	<p>ccacgcgtcc ggcgggtgca cggctgcaccc ggcagcggctc caggctccgg ctactctcc gctgtcagcag ccggcgctgccc ggccccactg ggtctcggtc cggcccccgg ccctctgggca ccgctctgtc tggccccggc cccggccccg cggaccatgc gctggggccc ccaggggggaa acccgatccc gccaaggggcc cgcacaagatgc aggtctccccc gccaaggggccc ctcccggccc cccaagctctc ggcccggccc ctggccccgg tcccggggccc gctgtgaagctt gctggggggccat ggagcggcgcc cggccccgacg ggccgctgaa cgtctggggg gctgtggggg gctgtggggg ggcggcgggg ggcggcgggg gctctcggc agctgtggac gctgtgtgtc cggcgctcat gctgtgtc atcgtggcca cgggtgtggg caatgcggc gctatgtc cctctgtg cgactgtgac ctccgcaacc agaacacti ctctgtctc aactgtgcca tctccgacti cctctgtg gctctgtg tccactgtga tgaactac gttgtgtgac gtcgggtggac ctccggcccgg ggcctctgtga agctgtgtg gttgtgtgac taactgtgt gcaactctc tgccttcaac atcgtgtgca tgcgtgtgca ccgtctctg tgggtgtgac gtagcggctc ataccggggc cagcaggggg acacggggg ggcaggggg aagatgtgtc tgggtgtg gctgtgtg gctgtgtg gacacagcat cctgtgtgtg gttgtgtgt cccggggggc ctccatccc gtagggggc gctatgtgac gttctgtac</p>	A	Homo sapiens

aacttggtaact tctatcaac ggtttccacc ctggtaagtct ttacggcctt cctcagctc accttttta aactcagcat ctacttgaac
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cagggggc agggggggc cagagggaggtt gggggggcag gggggccttc gccaaggtt gttgacccgtt gccaagggct
ctggcagctc ccttggctt gggggcttgg ctggcccttga aacggggag ccaacataaa gtttatttt ttaaaaaa
aaaaaaaaa aaaaaaa

549 177191 Histamine H3 Receptor NP_009163.1 P Homo sapiens
MERAPDGPL NASGALAGDA AAAGGARGFS AAWTAVLAAL MALLIVATVL
GNALVMLAFV ADSSLRTQNN FLLNLAISD FLVGAFCLP YVPYVLTGRW
TFGRGLCKLW LVVDYLLCTS SAFNIVLSY DRFLSVTRAV SYRAQQGDTR
RAVRKMLLV VLAFLLYGPA ILSWEYLSGG SSIPEGHCA YEFFYNWYFLI
TASTLEFFTP FLSVTFFNLS IYLNQRRTR LRLDGAREAA GPEPPEAQ P SPPPPPGCWG
CWQKGHGEAM PLHRYGVGEA AVGAEGEAT LGGGGGGGV ASPTSSSGSS
SRGTERPRSL KRGSKPSASS ASLEKRMKMV SQSFTQRFRL SRDRK VAKSL
AVIVSIFGLC WAPYTLMLII RAACHGHCV P DYWYETSFWL LWANSA VNPV
LYPLCHHSFR RAFTKLLCPQ KLIKQHSSL EHCWK

550 177387 G Protein-Coupled Receptor ORF4 NM_020155 A Homo sapiens
agggccctt gcttgaac gacgggttgc agccggctt cccctccac cccagagagca ctagaacag ctagggccag
gagttcttc ctggggctc tgcacccc cacttggc tctggggtag gcccagggag gtagacaccc caacccctat
ccggcttgc ctggagaaaa gtagctgccc ttccagccc ctgagtgag ggttgggg caggttggctt gtttcccca
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tcaacttca gacgttgc ctggccctt gtttcttgc gggccggctt gtagacac cttctctt ctacttcca gtaactccc

551	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	<p> ggcocaaaccg ootggggccc ttgccttctt ggccttctct ctcctgcccc gctcgcctgc agttctcac ctgagcgctt atgaaactct actttgocaa ggggtgtgttc aaaggccaaagg tgaagcgtgc gccgagagtg agccagaggt tgcctgcctt ccgagggggcc ttgtgggggg ootcgcctct ctctcgtctg gtagaacgtgc tgggtgtgtt gctctccat cggcgcgcgc agccctggggc cctgcctctt gtcgcgcctcc tggtagagcga ctccctgttc gtcactgcg cgtctctct tgcctgcctgc ctcctgcctgc tgcocagcgg ggcocctoca ctatgcalcta ootggagccc aaaggtagggc tgcagcctgc atggocacgt gcttttggg tctctggcca ggcgttcca ggggttagag MESNLGSLVP AAGLVLPALPP AVTLGLTAAY TTLYALLFFS VYAQLWLVL YGKRLSYQT VFLALCLLWA ALRITLFSFY FRDTPRANRL GPLFWLLYC CPVCLQFTTL TLMNLFYAQV VFKAQVKRRP EMSRGLLA VR GAFVGASLLF LLVNVLCVAVL SHHRAQPWAL LLVRVLVSDS LFVICALSLA ACLCLVASGR PPLASTWRPR </p>	P	Homo sapiens
552	180956	Lysophosphatidic Acid Receptor Edg7	NM_012152	<p> ctctttaaa ttctttcta gggatgtcac ttcttctoca caatgaatga gttgtcactat gacaagcaca tggactttt ttataatagg agcaaacatg atactgtoga tgaatgtgaca ggaacaaagc ttgtgatgt ttgtgtgt gggagctttt tctgcctgtt tatttttt tctaatctc tggctacgc ggcagtgatc aaaaacagaa aaatttcatt coctctctac taccgttgg caatttggc tgcctccgat ttcttcctg gaattgctta tgtatctctg atgttaaca caggocacgt ttcaaaact ttgactgtca accgcttggt tctc-gtccag gggcttctgg acatgagctt gactgtctcc ctacocact tgcctgtttat cgcctgtggag aggcacacatgt caatcagag gatgggggc catagcaaac tgaacaaaaa gagggtgtaca ctgctcatt tgcctgtctg gggccatgcc attttatgg gggcggtccc cactctgggc tggaaatggc tctgcaacat ctctgcctgc tctccctgg coocattta cagcagaggt taccctgttt tctgacaggt gtocaaotc alggccttcc tcatcaggt tgggtgtgac ctgcgcctat acgtgtactgt caatgagagaa aocaaactgt tgcctccgca tacaagtggg tccatcagcc gccggagagac accaatgag ctatgtgaaga cgtgtgtgtac tgcctagggg gctgtgtgtg tatctgtgac oocggcgctg gttgtctgc tctcgcaggg ootgaactgc aggcaggtgtg gctgtgacga tttgaanaagg tggctctgc tgcctggcct gctcaactcc gtcgtgaacc ccatcatcta ctctacaag gacgaagaca tgaatggcac catgaagaag atgactctgt gctctctca ggaagaacca gtaggggctc ootctgcct coctccaca gtcctcagca ggaatgacac aggcagccag taccataggg atagtattag ccaatgtgtca gctctcaata aaagcacitc ctaaactct gtagctctc ggcocacoca ggtgtgtact gcttagg MNECHYDKHM DFFYNRSNTD TVDDWTGTKL VIVLCVGTFF CLFIFFSNL VIAAVIKNRK FHFFYYLLA NLAADFFAG IAYVFLMFNT GPVSKTLTVN RWFLRQGLD SSLTASLTNL LVIAVERHMS IMRMVHNSL TKKRVTLIL LVWAIAIFMG AVPTLGWNCL CNISACSSLA PIYSRYLVF WTVSNLMAFL IMVVVYLRY VYVKRKTNVL SPHTSGSISR RRTPMKLMKT VMTVLGAFVV CWTPLVLVLL LDGLNCRQCG VQHVKRWFLL LALLNSVNP IYSYKDEDM YGTMKKMICC FSQENPERRP SRPSTVLSR SDTGSQYIED SISQGAVCNK STS atggggcccg ggcagcgcct gctggcggggt ctctgttga tggtaactggc cgtggcgctg ctatcaacg cactggct gctttgtgc gccaacagcg ctgagctccg catctgagcc tcaaggctcc tctgtgtgaa tctgtctctg ggcocacgc tgcctggcgcc gctgtgacatg cocttcacgc tgcctgggtgt gtagcgtgggg cggacaacgt cggcgcccgcc cgtcagccaa gtcatttgct tccgtgacac ctccctggcg tccaaagcggc cgtctgagcgt ggcctggcctg agcgcacagacc agtggctggc agtggggcttc coactgtcct agccocggagc coctggcagcc cgtatgtccg ggcctgtgtt gggctgtgtt tggggacagt cgtctggctt cttagggct gcatgtgtt gctcgtggct tggctacagc agccctcgc cgtctgtctc gctgtgtccg ocgcccgagc ctgagcgctc ggccttggca gctctacag coactccag tgcctgttga tgcctgtgtc cgtctgtgtt gctctgtctc acctgtcc aggtgtgacccg ggtgtgtgacgc agcacctgtcc agcgtcagga caocgtcac atgagggcgc </p>	A	Homo sapiens
553	180956	Lysophosphatidic Acid Receptor Edg7	NP_036284.1	<p> VIAAVIKNRK FHFFYYLLA NLAADFFAG IAYVFLMFNT GPVSKTLTVN RWFLRQGLD SSLTASLTNL LVIAVERHMS IMRMVHNSL TKKRVTLIL LVWAIAIFMG AVPTLGWNCL CNISACSSLA PIYSRYLVF WTVSNLMAFL IMVVVYLRY VYVKRKTNVL SPHTSGSISR RRTPMKLMKT VMTVLGAFVV CWTPLVLVLL LDGLNCRQCG VQHVKRWFLL LALLNSVNP IYSYKDEDM YGTMKKMICC FSQENPERRP SRPSTVLSR SDTGSQYIED SISQGAVCNK STS atggggcccg ggcagcgcct gctggcggggt ctctgttga tggtaactggc cgtggcgctg ctatcaacg cactggct gctttgtgc gccaacagcg ctgagctccg catctgagcc tcaaggctcc tctgtgtgaa tctgtctctg ggcocacgc tgcctggcgcc gctgtgacatg cocttcacgc tgcctgggtgt gtagcgtgggg cggacaacgt cggcgcccgcc cgtcagccaa gtcatttgct tccgtgacac ctccctggcg tccaaagcggc cgtctgagcgt ggcctggcctg agcgcacagacc agtggctggc agtggggcttc coactgtcct agccocggagc coctggcagcc cgtatgtccg ggcctgtgtt gggctgtgtt tggggacagt cgtctggctt cttagggct gcatgtgtt gctcgtggct tggctacagc agccctcgc cgtctgtctc gctgtgtccg ocgcccgagc ctgagcgctc ggccttggca gctctacag coactccag tgcctgttga tgcctgtgtc cgtctgtgtt gctctgtctc acctgtcc aggtgtgacccg ggtgtgtgacgc agcacctgtcc agcgtcagga caocgtcac atgagggcgc </p>	P	Homo sapiens
554	189873	G Protein-Coupled Receptor GPR78	AF411107	<p> VIAAVIKNRK FHFFYYLLA NLAADFFAG IAYVFLMFNT GPVSKTLTVN RWFLRQGLD SSLTASLTNL LVIAVERHMS IMRMVHNSL TKKRVTLIL LVWAIAIFMG AVPTLGWNCL CNISACSSLA PIYSRYLVF WTVSNLMAFL IMVVVYLRY VYVKRKTNVL SPHTSGSISR RRTPMKLMKT VMTVLGAFVV CWTPLVLVLL LDGLNCRQCG VQHVKRWFLL LALLNSVNP IYSYKDEDM YGTMKKMICC FSQENPERRP SRPSTVLSR SDTGSQYIED SISQGAVCNK STS atggggcccg ggcagcgcct gctggcggggt ctctgttga tggtaactggc cgtggcgctg ctatcaacg cactggct gctttgtgc gccaacagcg ctgagctccg catctgagcc tcaaggctcc tctgtgtgaa tctgtctctg ggcocacgc tgcctggcgcc gctgtgacatg cocttcacgc tgcctgggtgt gtagcgtgggg cggacaacgt cggcgcccgcc cgtcagccaa gtcatttgct tccgtgacac ctccctggcg tccaaagcggc cgtctgagcgt ggcctggcctg agcgcacagacc agtggctggc agtggggcttc coactgtcct agccocggagc coctggcagcc cgtatgtccg ggcctgtgtt gggctgtgtt tggggacagt cgtctggctt cttagggct gcatgtgtt gctcgtggct tggctacagc agccctcgc cgtctgtctc gctgtgtccg ocgcccgagc ctgagcgctc ggccttggca gctctacag coactccag tgcctgttga tgcctgtgtc cgtctgtgtt gctctgtctc acctgtcc aggtgtgacccg ggtgtgtgacgc agcacctgtcc agcgtcagga caocgtcac atgagggcgc </p>	A	Homo sapiens

[illegible]

565	189901	G Protein- Coupled Receptor Ls189901 (HEOAD54)	CAC38933.1	<p>ggccacccgg gcagctggcc ccacggagagc acggctcagc acgtgtgtgg gcgcaccac ctacagtag cgtgtgagtg cgatgctgt gaggagagaca acgctggccg tgggttgggt ggcacagatg aagaggttga ctttgcaggc agcagoccca aagccocagg tctatggag gaggtagtag tccacggga ggggcagggt gctgatcagg aggaagttag cggccaocag gctgacagg aacaccgtgt tggaggtcca gggccggcgtg tggatgaga agatgaagag ggcacaaactg ttocccaoca ggccacaggac aaactocagg ggcaggatg ggcacaggaa ggcagacac agcgaggag aggtgggggtg gcaggggcc ccaggaggcc cccacacagt ggaagggc</p> <p>MELHNLSSPS PSLSSSVLPP SPSPSPSSAP SAFTTVGGSS GGPCHPTSS LVS AFLAPIL P</p> <p>ALFVGLV LG NSLALFICI HTRPWTSNTV FLVSLVAADF LLISNPLRV</p> <p>DYLLHETWR FGAAACKVNL FMLSTNRTAS VFELTAIALN RYLKVVQPHH</p> <p>VLRSASVGAA ARVAGGLWVG ILLNGHLLL STFGSPSCLS YRVGTPKSAS</p> <p>LRWHQALYLL EFFPLALIL FAIVSIGLTI RNRGLGGQAG QRAMRVLAM</p> <p>VVAVYTICFL PSIFGMASM VAFWLSACRS LDLCTQLFHG SLAFTYLSNV</p> <p>LDPVLYCFSS PNLHQSRAL LGLTRGRQGP VSESSYQPS RQWRYREASR</p> <p>KAEAGKLV QGEVSLKEG SSQG</p>	Homo sapiens
566	189904	Purinergic Receptor P2U2 (GPR91)	NM_033050	<p>ggataggtt taactcagca gaatttgg acaactacg acatgctggg gatcatggca tggaatgcaa ctggcaaaaa</p> <p>ctggctggca gcagaggctg cccgggaaaa gtaactcct tccattttt aiggagatga gtcgtgtg gaggccctg gaaataccat</p> <p>tgtgtttac ggtacatct tctctgaa gaactgggac agcagtaata ttatcttt taactctct gctcagact tagctttct</p> <p>gtgcaccc ccaagctga taaggatga tggcaatgga aactggatat agggagact gctctggcata agcaacagt</p> <p>atgtgtctca tggcaactc tatacagca tctcttct cactttatc agcalagatc galacttgat aataagtat cctttccgag</p> <p>aacacctct gcaaaagaaa gagtgtgcta tttaactc ctggccatt tgggtttag taactttaga gtaactccc atactcccc</p> <p>ttataatcc tgtataact gtaacatgca ccaatgtaa tgaattgca agttctgag acccaacta caactcatt tacagcagt</p> <p>gtcaacact gtgggggtc ctattctc ttgtgtat ggttttct tattacaaga tggctctct cctaaagcag aggaataggc</p> <p>aggtgtctac tgcctggcc ctggaaagc cctcaactt ggtatcatg gcagtggttaa tctctctgt gcttttaca cccatcacg</p> <p>tcatgggaa tggagatc gcttcagcc tggggggtg gaagcagat cagtgccact aggtctgcat caactctt</p> <p>tacatgiga caggccctt ggcctctg aacagigca tcaacccgt cctctttt ctttgggag atcacticag ggcacagctg</p> <p>algatcaac tgaacacaa ctcaatcc ctacatct tttagcagatg ggcctcatgaa cctcactt catcagaga aagtgaggg</p> <p>gcttggaaa cagatgtc tacagtgaa tctgttagcc agttacagt tgccttaact catagacatc aatcagagag tgcacagat</p> <p>ttaccttga tcaagaca agtttacc agatgtatg aaaaatgg ggcagacaga atgtactgt tcttctct aagaattgaa</p> <p>aggaatgaa ctgcctatg ttggcag taaactcaaa atactagga gtataaggct ttctcaatca gtcacaaaat ggaagatata</p> <p>taaagcaaca agttgtctc attgattcac tggcagatt gtaaaaaa aaaaaaaa</p> <p>MAWNATCKNW LAEEALEKY YLSIFYGIEF VVGVLGNTIV VGYFSLKN P</p> <p>WNSSNIYFN LSVSDLAFIC TLPMLIRSYA NGNWIYGDVL CISNRYVLHA</p> <p>NLYTSILFT FISIDRYLI KYPFREHLQ KKEFALLSL AIWVLVILEL LPILPLINPV</p> <p>ITDNGTTCND FASSGDPNIN LIYSMCLTLL GFLPLFVMC FFYKIALFL</p> <p>KQRNRQVATA LPLEKPLNV IMAVVIFSVL FTPYHVMRNV RIASRLGSWK</p> <p>QYQCTQVIN SFYIVTRPLA FLNSVINPVF YELLDHFRD MLMNQLRHNH</p> <p>KSLSFSRWA HELLSFREK</p>	Homo sapiens
568	189920	G Protein- Coupled Receptor GPR63 (PSP24)	NM_030784	<p>tggaagcatg ctccctgggc tcttcggcg gcgcgcgcgc gctgccttc gcttgagca aaaggactct tgtggaagat</p> <p>ggactcatt gtacattc cagaatgat ttocagccc atcaatggga cctgtatcgt cgtctgtg ttgaatgct tgaagaactc</p> <p>ctgcatctct gcttgcact tcaactac tgaacacag gtctctcgg cagtttgac tgcgttcat accgggacat ccaacacac</p>	Homo sapiens

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575	190031	G Protein- Coupled Receptor VLGR1	AAD55586.1	<p>ggaggactac acatlgccia cagacactic tggatgtgg tictttgti cauttcaac agtctcagg gactttatgt tticaggti tatttcatt tacacaoca aalgittgc cctatgaagg ccagttacac tgggaatg aatggccalc ctggaccocag cacagccctti ttacgcccg ggatgtggaat goctcttctt ggagggggaaa tcaagcagtic caccocagaat ctatcggtg ctatggaggga gggtccacct gactggggaga gaggatoccti ccaacagggc agtcaggcca gccctgattt aaagccaagt ccacaaaatg gagccactt cccgtctctt ggaggatag gccagggtc actgagagc gatgaggagt cccaggagt cccaggagt tgaigtta atatgtcat taaaacttgg tctgtgtctc agtctcagc ataatgaatc tggcagggc agocaggagg ggaggccactt gactgactcc cagatcttgg agctcaggag gataccactc gccgacactc actgtagcca cctcactaac cattcgactg agcacactt catatttga tcaagtug tctcaaaact ctctaaagc atccactgt gtaataggaa cctgtgaatt gtaaggag attaacaa acgtgattt tgaatttga gataaatha ctgattgat gtaactgaa aattcactgc tataagaaaag gggagtcag tttgaatcag taataggat gtcataatc caaggatatt agtgattt taatcalcc taataggcta acattgttia algaaagtaa taatcaataa agcaataggaa tct</p> <p>MQLCIFCCCC ILFYFDLYDF GRGYDFTIQE NGLQIDQPPE IGNISIVRII IMKNDNAEGI P IEFDPKYTAF EVEEDVGLIM IPVVRLHGTY GYVTADFISQ SSSASPGGVD YILHGSTVTF QHGQNLSFIN ISIDDNESE FEEPIELLT GATGGA VLGR HL VSRILIAK SDSPFGVIRF LNQSKISIAN PNSTMILSLV LERTGGLLGE IQNWEIVTGP NSQEALLPON RDIADPVSGL FYFGE GEGGV RTHLTYPH EEIEVEETFI IKHL VKGEA KLDSRAKDV LTIQEFGDPN GVVQFAPETL SKKTYSEPLA LEGPLLTTF VRRVKGTGFE IMVYVELSSE FDTEDFELST SGFTIADGE SEASFDVHLL PDEVPEIEED YVQLVSVEG GAELDLEKSI TWFSVYANDD PHGVFALYSD RQSILIGQNL IRSIQINIR LAGTFGDVAV GLRISSDHKE QPIVTENAER QL VVKDQATY KVDVVPKKNQ VFLSGSNFT LQLVTVM LV GRFYGMPTIL QEAKSAVL PV SEKAANSQVG FESTAFQLMN ITAGTSHVMI SRRGTYGALS VAWTTGYAPG LEIPEFIVVG NMPTLGLSL FSHGEQRKGV FLWTFPSGW PEAFVLHLSG VQSSAPGGAQ LRSGFIVAEI EPMGVFQFST SSRNIIVSED TQMRHLHVQR LFGFHSDLIK VSYQTAGSA KPLEDFEPVQ NGELFFQKFQ TEVDFEITII NDQLSEIEEF FYINL TSVEI RGLQKFDVNW SPRLNDFS AVITILDND LAGMDISFPE TTVA VAVDIT LIPVETESTI YLSTSKTTTI LQPTNVVAIV TEATGVSAP EKL VTLHGTP AVSEKPDVAT VTANVSIHGT FSLGPSIVYI EEMKNGTFN TAEVLRRTG GFTGNVSVTV KTFGERCAQM EPNALPRGI YGISNL TWAV EEEDFEEQTL TLFLDGERE RKVS VQILDD DEPEGQEFFY VFLTNPQGA QIVEGKDDTG FAAFAMVIT GSDLHNGIIG FSEESQSGL EREGAVMRL HLIVTRQPNR AFEDVKVFWR VTLNKTVVVL QKDG VNLMEE LQSVSGTTC TMGQTKCFIS IELKPEKVPQ VEYFFVELY EATAGAAINN SARFAQKIL ESDQSQSLVY FSVGSR LAVA HKKATLSIQ VARDSGTGLM MSYNFSTQEL RSAETIGRTI ISPAISGKDF VITEGTLVFE PGQRSTVLDV ILTPETGLN SFPKRFQIVL FDPKGGARID KVVGTANITL VSDADSQAIW GLADQLHQPV NDDLNRVLH TISMKVATEN TDEQLSAMMH LIEKITTEGK IQAFSVASRT LFYEILCSLI NPKRKDTRGF SHFAEVTENF AFSLLTNVTCT GSPGEKSKI LDSCPYSIL ALHWYPOQIN GHKFEKGED YRIPERLLD VQDAEIMAGK STCKLVQFTE YSSQWFFISG NNPLTKNKV LSLSVKGQSS QLLTNDNEVL YRIYAAEPRI IPQTSLSCLLW NQAAASWLSD SQFCKVIEET</p>	Homo sapiens
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576	190168	G Protein-Coupled Receptor GPR58	NM_014626	ADYVEACASH MSVYAVYART DNLSSYNEAF FTSQFICISG LCLAVLSHIF CARYSMFAAK LLTHMMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFLLSWG LPAFVVILLI VILKGIYHQS MSQYGLIHG DLCFIPNVYA ALFTAALVPL TCLVNVVFWVF IHAYQVKPQW KAYDDVFRGR TNAAEIPLL YLEFALISVTW LWGGLHMYR HFWMVLV FVIFNSLQGLYVF MYYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGYGQGS LIADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL aigtatcat ttatggcagg aatcaatc atcaaatat tggcaatc ttgcatagt atttcaalt octactcaaa gcagctcac acaacaaca acttccat cctctccat gccatcacg atttccct gggtatcac atcaatgat atagtatgat cagatcggtg gagaactgct ggattttgg gttactatt tgcagattt attatagtt tgcactgat cttagcataa catcaattt tcatcttgc tcagtggcca ttgatagatt ttatctata ttgtacat tactttat cacaacataa actatccag tcatataaag attgtaact ctatgtgt cggctccgtg agcatggcc ttggggcgg tcttcaga tggctatgca gatggaaatag agggctatga caatgtgt gctgttcca gtcttgccc atgtatgtt acaagacat gggggacac ctgtttatg tgcaggtct tcaatctgg gtctatgatg tggggattt acggcaaat ttltcagta tccagtaaac atgtcatgc catcaataac ttggagaaa atcaaatata tcaagtgaag aaagacaaaa aagctgocaa aactttagga atagtatag agattttct attatgttg ttctctgt tcttcaaat ttatgtgat ccttttga actttcac tctgtatgt ttgttgaag ccttgcacg gtttggcat tttaactcca catgaatcc gttaatatat ggtttctct atccctggt ttgcagagca ctgaagtaca ttgtcagg taaatttct agctcatgt tccataatc tatttgt atgcaaaaag aagatgata g MYSMFAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLLSM AITDFLLGFT IMPYSMIRSV ENCWYFGLTF CKIYVSFDLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TPVIKRLLL LCWSVPGAFV FGAVFSEAYA DGIEGYDILV ACSSCPVMF NKLWGTTLFM AGFTPGSMM VGIYKJFV SRKHAHANN LRENQNVK KDKKAAKTLG IVIGVELLW FPCFFILLD PFLNFTPVV LFDALTWFGY FNSTCNPLY GFYYPWFERRA LKVLLGKIF SSCFHNTILC MQKES	Homo sapiens
577	190168	G Protein-Coupled Receptor GPR58	NP_055441.1	atggatcaca ctatattcc cgaagaaccta tccagttgc caaaattgt aaataagatc ctgtctccc accaaccgt ctttcatgt caagttgata aigtatcgg ttatgactgg agccatgatt atccattat cggzaacttg gtaataatg ttctatac gcatcaca cagcttact ctccacaaa ctctgac ctctccatg caacacggga cttctctg gggtttgca ttatgccata cagcataaag cgaicagtgg agagtatg ttactttggg gatggcttt gtaaatcca caaagctt gacatgatgc tcaagctgac ctcatctc caactctgt ccattgcat tgaaccatt tatggcgt gttacocctt acattacaca accaaaaga cgaactccac cataaagcaa ctgtggcat ttgtctgic agttctgt cttttct ttgtttat tctatctgag gcagatgtt ccggtatgca gagctatag atacttgg ctgtctcaa ttctggcc ctacttca acaatttgc ggggacataa ttgtcata catgtttct taccctggc tccatcattg ttgtrattta tggcaaaalc ttatgttt ccaacaagca tgcctgagtc atcagccatg tgcctgaaaa cacaaagggg gcagtgaataa aatccatc caagaaaag gacaggaag cagcgaagc actgggtata gtaatggggg ttgtctggc ttgtctgtg cctgtttc ttgtctt gatgaocaa tccatagat atccactc catataata ttgacttt tagttgtgt ccggtactc aacttact gcaacctt tatctagc tttaaac catgttcca gaaagcatt aagtacatag tgcaggzaa aatattag tccatcag aaactgcaa ttgtttct gaagcatat aa	Homo sapiens
578	190170	G Protein-Coupled Receptor GPR57	NM_014627	ADYVEACASH MSVYAVYART DNLSSYNEAF FTSQFICISG LCLAVLSHIF CARYSMFAAK LLTHMMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFLLSWG LPAFVVILLI VILKGIYHQS MSQYGLIHG DLCFIPNVYA ALFTAALVPL TCLVNVVFWVF IHAYQVKPQW KAYDDVFRGR TNAAEIPLL YLEFALISVTW LWGGLHMYR HFWMVLV FVIFNSLQGLYVF MYYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGYGQGS LIADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL aigtatcat ttatggcagg aatcaatc atcaaatat tggcaatc ttgcatagt atttcaalt octactcaaa gcagctcac acaacaaca acttccat cctctccat gccatcacg atttccct gggtatcac atcaatgat atagtatgat cagatcggtg gagaactgct ggattttgg gttactatt tgcagattt attatagtt tgcactgat cttagcataa catcaattt tcatcttgc tcagtggcca ttgatagatt ttatctata ttgtacat tactttat cacaacataa actatccag tcatataaag attgtaact ctatgtgt cggctccgtg agcatggcc ttggggcgg tcttcaga tggctatgca gatggaaatag agggctatga caatgtgt gctgttcca gtcttgccc atgtatgtt acaagacat gggggacac ctgtttatg tgcaggtct tcaatctgg gtctatgatg tggggattt acggcaaat ttltcagta tccagtaaac atgtcatgc catcaataac ttggagaaa atcaaatata tcaagtgaag aaagacaaaa aagctgocaa aactttagga atagtatag agattttct attatgttg ttctctgt tcttcaaat ttatgtgat ccttttga actttcac tctgtatgt ttgttgaag ccttgcacg gtttggcat tttaactcca catgaatcc gttaatatat ggtttctct atccctggt ttgcagagca ctgaagtaca ttgtcagg taaatttct agctcatgt tccataatc tatttgt atgcaaaaag aagatgata g MYSMFAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLLSM AITDFLLGFT IMPYSMIRSV ENCWYFGLTF CKIYVSFDLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TPVIKRLLL LCWSVPGAFV FGAVFSEAYA DGIEGYDILV ACSSCPVMF NKLWGTTLFM AGFTPGSMM VGIYKJFV SRKHAHANN LRENQNVK KDKKAAKTLG IVIGVELLW FPCFFILLD PFLNFTPVV LFDALTWFGY FNSTCNPLY GFYYPWFERRA LKVLLGKIF SSCFHNTILC MQKES	Homo sapiens
579	190170	G Protein-Coupled Receptor	NP_055442.1	atggatcaca ctatattcc cgaagaaccta tccagttgc caaaattgt aaataagatc ctgtctccc accaaccgt ctttcatgt caagttgata aigtatcgg ttatgactgg agccatgatt atccattat cggzaacttg gtaataatg ttctatac gcatcaca cagcttact ctccacaaa ctctgac ctctccatg caacacggga cttctctg gggtttgca ttatgccata cagcataaag cgaicagtgg agagtatg ttactttggg gatggcttt gtaaatcca caaagctt gacatgatgc tcaagctgac ctcatctc caactctgt ccattgcat tgaaccatt tatggcgt gttacocctt acattacaca accaaaaga cgaactccac cataaagcaa ctgtggcat ttgtctgic agttctgt cttttct ttgtttat tctatctgag gcagatgtt ccggtatgca gagctatag atacttgg ctgtctcaa ttctggcc ctacttca acaatttgc ggggacataa ttgtcata catgtttct taccctggc tccatcattg ttgtrattta tggcaaaalc ttatgttt ccaacaagca tgcctgagtc atcagccatg tgcctgaaaa cacaaagggg gcagtgaataa aatccatc caagaaaag gacaggaag cagcgaagc actgggtata gtaatggggg ttgtctggc ttgtctgtg cctgtttc ttgtctt gatgaocaa tccatagat atccactc catataata ttgacttt tagttgtgt ccggtactc aacttact gcaacctt tatctagc tttaaac catgttcca gaaagcatt aagtacatag tgcaggzaa aatattag tccatcag aaactgcaa ttgtttct gaagcatat aa	Homo sapiens

581	190188	G Protein-coupled Receptor LGR6	AAG17168.1	MRLEGEGRSA RAGQNLNRAG SARRGAPRDL SMNNLTQLQP GLFHHLRFELE ELRLSGNHL S HIPGQAFSG L YSLKILMLQN NQLGGIPAEA L WELPSLQSL DLNYNKLQEF PVAIRITLGR L QELGFHNMI KAPEKAFMG NPLIQTHFY DNPIQFVGRS AFQYLPKLHT LSLNGAMDIQ EFPDLKGTTS LEILTLTRAG IRLLPSGMCQ QLPRRLRVLEL SHNQIEELPS LHRQKLEELI GLQHNRIWEI GADTFSQLSS LQALDLSWNA IRSIHPEAFS TLHSLVKLDL TDNQLTTLPL AGLGGLMHLK LKGNLALSQA FSKDSFPKLR ILEVPIAYQC CPYGMCASSF KASGQWEAED LHLDEESSK RPLGILLARQA ENHYDQDLDE LQLEMEDSKP HPSVQCSPTP GPFKPCXYLF ESWGIRLAVW AIVLLSVLCN GLVLLTVFAG GPVPLPPVKF VVGAIAGANT LTGISCGLLA SVDALTFGQF SEYGARWETG LGCRA TGFLA VLGSEASVLL LTLAAVQCSV SVSCVRAYGK SPSLGSVRAG VLGCLALAGL AAALPLASVG EYGASPLCLP YAPPEGQPAALGFTVALVMM NSFCFLVVAG AYIKLYCDLP RGDFAAVWDC AMVRHVAWLI FADGLLYCPV AFLSFASMLG LFPVTPEAVK SVLLVVLPL ACLNPLLYLL FNPHERDDLRLRPRAGDSG PLAYAAAGEL EKSCDSTQA LVAFSDVDLI LEASEAGRPP GLETYGFPSV TLJSCQQPGA PRLEGSHCVE PEGNHFGNPQ PSMDGELLRL AEGSTPAGGG LSGGGFGQP'S GLALLHTY	P	Homo sapiens
582	190414	G Protein-coupled Receptor GPR101	AF411115	atgaagttcca cctggacacaa cagcagcggcgg gaaagaaataca gcaagacacac gttgcatggcc cttctcaaaa tggccatcag cctggccac gggcatcacc gctcaacccgt gctgggtatc ttctctggccg cctcttctgt cggcaacataa gttctggggc taagtgtgtca ggcacagccgg cagctctgtcgc aggtgtgaccaa ccgtttatc tttaacctcc tggtaaccga cttgtgtcag atttctgtcgg tggcccccgt ggtgtgtggcc accctgtgtc cttctctgt gggccctcaac agtccacttct gcaaggccct gggttttgtctt acccaactgt tggcttgc cagcgtcaac accatttgc tgggtgtcgt ggaatcgttact tttgtatca tcaacct ctcttaaccg tcaagaaiga ccaagtcggccg cggtttaacct ctctctatg gcaacttggat tttgtggccatc ctggcaagaa ctcttcaact ctacggctgg gggccagggctg ccttttgaiga ggcgaattgt ctctgtctcca tgaatctgggg ggtccagccccc agcttaacta ttctcagcgt ggtgtcttc atgcgtatc caactgtatgt caattgttgc tttactatccg tgggtgttctgt tgcagtcggg aggtcagtcag ctctgtgtta caattgtcaag agtaacaagct tggaaagtggc agtcaaaagtaac tgggtgtgaiga atgtgtgaiga aagaaggtgaiga gaaagaaag agtgaagtcca aggtgaagtcca aggttttggcc gccaagcatga aggtttgaagttc aaaggccaagag aggtgtcaagaa ggaagtcgaag gtaagtcgaagcc tgaagtcgaagcc agtgaagtcgaagcc agtgaagtcgaagcc tgaagtcgaagcc aggtgtgtgt agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag tgaagtcgaag agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag agttttgtgtga agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag cgttaacaagca accagcaaccc tctctggcc aggtgtgtgtgt agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag tccctggggcc cctactgttt ttatgtgtgt ctgtgtgtgt ggtgtgtgtgt ggtgtgtgtgt ggtgtgtgtgt ggtgtgtgtgt ggtgtgtgtgt cataactatc tggcttttct tctgtgtgt cttgtgtgtgt cctgtgtgtgt agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag cattgtgtgtgt aggtttctt gcaagtcgaag gggcccccgaag gaaagtcgaag acccaagtcgaag gggccgggtgtgtgt ctgaagtcgaag gattgtgtgt tctgtgtgtgt agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag agtgaagtcgaag	A	Homo sapiens

583	190414	G Protein-coupled Receptor GPR101	CAC33098.1		<p>MTSTCTNSTR ESNSSHTCMP LSKMPISLAH GIIIRSTVLVI FLAASFVGNL VLALVLQRKP P</p> <p>QLLQVTNRFI FNLLVTDLLQ ISLVAPWVVA TSVPLFWPLN SHFCTALVSL</p> <p>THLFAFASVN TIVLVSDRY LSHIPLSY SKMTQRRGYL LLYGTWIVAI</p> <p>LQSTPPLYGW GQAAFDERNA LCSMIWGASP SYTILSVVSF IVPLIVMIA</p> <p>CYSVVFCAAR RQHALLYNVK RSHLEVRVKD CVENEDEEGA EKKEEFQDES</p> <p>EFRRQHEGEV KAKEGRMEAK DGSLLAKEGS TGTESSSVEA RGSEEVRESS</p> <p>TVASDGSMEG KEGSTKVEEN SMKADKGRTE VNQCSIDLGE DGMFEGEDDI</p> <p>NFSEDDVEAV NIPESLPPSR RNSNSNPPLP RCYQCKAAKV IPIIIFSIVL SLGPYCFCLAV</p> <p>LAVVVDVETQ VPQWVITIII WLFFLQCCIH PYVYGYMHKT IKKEIQDMLK</p> <p>KFFCKEKPYPK EDSDPDLPGT EGGTEGKIVP SYDSATFP</p> <p>taactgtcca ccagaaagga cgtctcttg ggtgagfaga actcttcca ttatagaag aattgaaggc tgaagaatic agcctctatc A</p> <p>atgtggaaaca gctctgaagc caactcttcc tgttaccatg agtctgtgt gggctatgtg taltgtgcaag ttatgtgggg</p> <p>gggtgggggtg gctgagacag gcaacgtgggg caatgtgtc aacttacttg octtggocat ccagcccaag ctccgtatcc</p> <p>gattcaact gctctatgac aactctacac tggctgact cctctactgc agctctctc agcctctc tgggtacac tactctcac</p> <p>tgcactggcg caacgggtgac accctctgca gggtatttg gctctctct ttgctcca attctgtct cactctgac ctcctctca</p> <p>tcgcactggg acgtctacct ccatggcc acctaaagt ttccccaa gtttcagtg ccagggggat agtctggca</p> <p>ctggtgagca cctgggtgt gggcgtggcc agcttgctc octctggcc latitatalc ctgttacctg latctgacac ctgcaagctt</p> <p>gaaccgatcc gtagccggcc ttaccacc accctcatgg gcatctact tgtgtctggg ctacagatg ttggcatct ctatgtctc</p> <p>attccacgcc aggtcaacg agcacacag gcactgggac aatacaagt gggacagcca agcatccact ccaccatgt</p> <p>ggccaggaact gattgaagcca tgcctgtgtg ttccagagag ctgacagca ggttaagcalt aggaaggacc agtgaaggga</p> <p>tttctatga gccagtcatg gctgccacca ccagacactt ggaaaggggag tcaatagag tgggtgaacca gattcaacagc</p> <p>aaagagacta agcagatggc agagaaaaag octccagaag catctgocaa agccacagcca attaaaggag ccagagagagc</p> <p>tccgattct tcatcggaat ttgggaagt gactgaalg tgtttgtg tgttctctg ctgtgcttg agctacatcc octctgtct</p> <p>gctcaacti ctggatgcca gtagtccagg tcccgggtg gtccatgc ttgtgocaa cctcacttg ctcaatggt</p> <p>gcatcaaccc tgtgtctat gcaagccatga accgccaati ccgccaagca tatgtctcca tttaaaaa agggccccgg</p> <p>agtttccala ggctccalta gaactgtgac octagtcacc agaatcagg acgtctctt ccaggaocaa agtgggocagg</p> <p>taatagaga ataggtgaaa taacatagt gggcatttc acaaatct ctccagcc tcccaaitca agtctctcca tcaatgalt</p> <p>aatgttcag cctatgactg ccaagggagt attataat attataaat gattctggt cttaaaaa aaaaaaata aaaaaagaaa</p> <p>aaaaaaaaa aaaaaaata aaaaaa</p> <p>MWNSSDANFS CYHESVLGYR YVAVSWGVMV AVTGTGVMVL TLLALAIQPK P</p> <p>LRTRFNLLIA NLTLADLLYC TLLQPSVDI YLHLHWRTGA TFCRVFGLLL</p> <p>FASNSVSILT LCLIALGRYL LIAHPKLPQ VFSAKGIVLA LVSTWVVGVA SEAPLWPIYI</p> <p>LVPVCTCSF DRURGRPYT ILMGIYFVLG LSSVGIFYCL IHRQVKRAAQ</p> <p>ALDQYKLROA SIHSHVART DEAMPGRFQE LDRSLASGGP SEGISEPVS</p> <p>AATTQTLEGD SFEVGDQINS KRAKQMAEKS PPEAKAQKQ IKGARRAPDS</p> <p>SSEFGKVTM CFAVFLCFAL SYPFLLNL LDARVQAPRV VHMLAANLTW</p> <p>LNGCINPVLY AAMNRQFRQA YGSILKRGRP SFHRLH</p> <p>cttggctca gagtaacc agttttcti ctccacag caaalacti gacagtgat atctctcc agctgtggc aagaapacag A</p> <p>aagtctct acaatctat ctggcactc gctgtgccc acatctggt octctttic atagtgtt tggacttct gttggaagt</p> <p>ttatctga acatgcat gctcaggct ccgacaga tcatagagt gctgggaatt tcatccatcc acactccat atggattact</p>	Homo sapiens
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585	190418	Inflammation- Related G Protein-Coupled Receptor EX33	NP_065103.1		<p>taactgtcca ccagaaagga cgtctcttg ggtgagfaga actcttcca ttatagaag aattgaaggc tgaagaatic agcctctatc A</p> <p>atgtggaaaca gctctgaagc caactcttcc tgttaccatg agtctgtgt gggctatgtg taltgtgcaag ttatgtgggg</p> <p>gggtgggggtg gctgagacag gcaacgtgggg caatgtgtc aacttacttg octtggocat ccagcccaag ctccgtatcc</p> <p>gattcaact gctctatgac aactctacac tggctgact cctctactgc agctctctc agcctctc tgggtacac tactctcac</p> <p>tgcactggcg caacgggtgac accctctgca gggtatttg gctctctct ttgctcca attctgtct cactctgac ctcctctca</p> <p>tcgcactggg acgtctacct ccatggcc acctaaagt ttccccaa gtttcagtg ccagggggat agtctggca</p> <p>ctggtgagca cctgggtgt gggcgtggcc agcttgctc octctggcc latitatalc ctgttacctg latctgacac ctgcaagctt</p> <p>gaaccgatcc gtagccggcc ttaccacc accctcatgg gcatctact tgtgtctggg ctacagatg ttggcatct ctatgtctc</p> <p>attccacgcc aggtcaacg agcacacag gcactgggac aatacaagt gggacagcca agcatccact ccaccatgt</p> <p>ggccaggaact gattgaagcca tgcctgtgtg ttccagagag ctgacagca ggttaagcalt aggaaggacc agtgaaggga</p> <p>tttctatga gccagtcatg gctgccacca ccagacactt ggaaaggggag tcaatagag tgggtgaacca gattcaacagc</p> <p>aaagagacta agcagatggc agagaaaaag octccagaag catctgocaa agccacagcca attaaaggag ccagagagagc</p> <p>tccgattct tcatcggaat ttgggaagt gactgaalg tgtttgtg tgttctctg ctgtgcttg agctacatcc octctgtct</p> <p>gctcaacti ctggatgcca gtagtccagg tcccgggtg gtccatgc ttgtgocaa cctcacttg ctcaatggt</p> <p>gcatcaaccc tgtgtctat gcaagccatga accgccaati ccgccaagca tatgtctcca tttaaaaa agggccccgg</p> <p>agtttccala ggctccalta gaactgtgac octagtcacc agaatcagg acgtctctt ccaggaocaa agtgggocagg</p> <p>taatagaga ataggtgaaa taacatagt gggcatttc acaaatct ctccagcc tcccaaitca agtctctcca tcaatgalt</p> <p>aatgttcag cctatgactg ccaagggagt attataat attataaat gattctggt cttaaaaa aaaaaaata aaaaaagaaa</p> <p>aaaaaaaaa aaaaaaata aaaaaa</p> <p>MWNSSDANFS CYHESVLGYR YVAVSWGVMV AVTGTGVMVL TLLALAIQPK P</p> <p>LRTRFNLLIA NLTLADLLYC TLLQPSVDI YLHLHWRTGA TFCRVFGLLL</p> <p>FASNSVSILT LCLIALGRYL LIAHPKLPQ VFSAKGIVLA LVSTWVVGVA SEAPLWPIYI</p> <p>LVPVCTCSF DRURGRPYT ILMGIYFVLG LSSVGIFYCL IHRQVKRAAQ</p> <p>ALDQYKLROA SIHSHVART DEAMPGRFQE LDRSLASGGP SEGISEPVS</p> <p>AATTQTLEGD SFEVGDQINS KRAKQMAEKS PPEAKAQKQ IKGARRAPDS</p> <p>SSEFGKVTM CFAVFLCFAL SYPFLLNL LDARVQAPRV VHMLAANLTW</p> <p>LNGCINPVLY AAMNRQFRQA YGSILKRGRP SFHRLH</p> <p>cttggctca gagtaacc agttttcti ctccacag caaalacti gacagtgat atctctcc agctgtggc aagaapacag A</p> <p>aagtctct acaatctat ctggcactc gctgtgccc acatctggt octctttic atagtgtt tggacttct gttggaagt</p> <p>ttatctga acatgcat gctcaggct ccgacaga tcatagagt gctgggaatt tcatccatcc acactccat atggattact</p>	Homo sapiens
586	190419	G Protein- Coupled Receptor Ls190419	AJ303165		<p>taactgtcca ccagaaagga cgtctcttg ggtgagfaga actcttcca ttatagaag aattgaaggc tgaagaatic agcctctatc A</p> <p>atgtggaaaca gctctgaagc caactcttcc tgttaccatg agtctgtgt gggctatgtg taltgtgcaag ttatgtgggg</p> <p>gggtgggggtg gctgagacag gcaacgtgggg caatgtgtc aacttacttg octtggocat ccagcccaag ctccgtatcc</p> <p>gattcaact gctctatgac aactctacac tggctgact cctctactgc agctctctc agcctctc tgggtacac tactctcac</p> <p>tgcactggcg caacgggtgac accctctgca gggtatttg gctctctct ttgctcca attctgtct cactctgac ctcctctca</p> <p>tcgcactggg acgtctacct ccatggcc acctaaagt ttccccaa gtttcagtg ccagggggat agtctggca</p> <p>ctggtgagca cctgggtgt gggcgtggcc agcttgctc octctggcc latitatalc ctgttacctg latctgacac ctgcaagctt</p> <p>gaaccgatcc gtagccggcc ttaccacc accctcatgg gcatctact tgtgtctggg ctacagatg ttggcatct ctatgtctc</p> <p>attccacgcc aggtcaacg agcacacag gcactgggac aatacaagt gggacagcca agcatccact ccaccatgt</p> <p>ggccaggaact gattgaagcca tgcctgtgtg ttccagagag ctgacagca ggttaagcalt aggaaggacc agtgaaggga</p> <p>tttctatga gccagtcatg gctgccacca ccagacactt ggaaaggggag tcaatagag tgggtgaacca gattcaacagc</p> <p>aaagagacta agcagatggc agagaaaaag octccagaag catctgocaa agccacagcca attaaaggag ccagagagagc</p> <p>tccgattct tcatcggaat ttgggaagt gactgaalg tgtttgtg tgttctctg ctgtgcttg agctacatcc octctgtct</p> <p>gctcaacti ctggatgcca gtagtccagg tcccgggtg gtccatgc ttgtgocaa cctcacttg ctcaatggt</p> <p>gcatcaaccc tgtgtctat gcaagccatga accgccaati ccgccaagca tatgtctcca tttaaaaa agggccccgg</p> <p>agtttccala ggctccalta gaactgtgac octagtcacc agaatcagg acgtctctt ccaggaocaa agtgggocagg</p> <p>taatagaga ataggtgaaa taacatagt gggcatttc acaaatct ctccagcc tcccaaitca agtctctcca tcaatgalt</p> <p>aatgttcag cctatgactg ccaagggagt attataat attataaat gattctggt cttaaaaa aaaaaaata aaaaaagaaa</p> <p>aaaaaaaaa aaaaaaata aaaaaa</p> <p>MWNSSDANFS CYHESVLGYR YVAVSWGVMV AVTGTGVMVL TLLALAIQPK P</p> <p>LRTRFNLLIA NLTLADLLYC TLLQPSVDI YLHLHWRTGA TFCRVFGLLL</p> <p>FASNSVSILT LCLIALGRYL LIAHPKLPQ VFSAKGIVLA LVSTWVVGVA SEAPLWPIYI</p> <p>LVPVCTCSF DRURGRPYT ILMGIYFVLG LSSVGIFYCL IHRQVKRAAQ</p> <p>ALDQYKLROA SIHSHVART DEAMPGRFQE LDRSLASGGP SEGISEPVS</p> <p>AATTQTLEGD SFEVGDQINS KRAKQMAEKS PPEAKAQKQ IKGARRAPDS</p> <p>SSEFGKVTM CFAVFLCFAL SYPFLLNL LDARVQAPRV VHMLAANLTW</p> <p>LNGCINPVLY AAMNRQFRQA YGSILKRGRP SFHRLH</p> <p>cttggctca gagtaacc agttttcti ctccacag caaalacti gacagtgat atctctcc agctgtggc aagaapacag A</p> <p>aagtctct acaatctat ctggcactc gctgtgccc acatctggt octctttic atagtgtt tggacttct gttggaagt</p> <p>ttatctga acatgcat gctcaggct ccgacaga tcatagagt gctgggaatt tcatccatcc acactccat atggattact</p>	Homo sapiens

Homo sapiens

P

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CAC33085.1

G Protein-Coupled Receptor
Ls190419

190419

587

Homo sapiens

A

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NM_020377

Cysteinyl
Leukotriene
CYSLT2
Receptor

190427

588

Homo
sapiens

P

NP_065110.1

Cysteiny
Leukotriene
CYSLT2
Receptor

190427

589

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YVFLQPKYS TSVNVFMLNL AISDLLFST LPFRADYYLR GSNWIFGDLA
CRIMSYSLYV NMYSSYFLT VLSVVRFLAM VHPFRLHVT SIRS AWILCG IIWILIMASS
IMLLDSGSEQ NGSVTSCLEL NLYKIAKLQT MNIAL VVGC LPFFTL SIC YLLIRVLLK
VEVPESGLRV SHRKALTTII ITLIFFLCF LPYHILRTVH LTTWKVGLCK DRLHKALVIT
LALAAANACF NPLL YYFAGE NFKDRLSAL RKGHPQAKT KCVFPVSVWL RKETRV

Homo
sapiens

A

NM_018485

G Protein-
Coupled Receptor
C5L2

190437

590

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tcatgcaact gctatgca agccttttt aggcactaga gataagcag tgaocaaa agacataaat cctggcc
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PGNAMVAWA GKVARRRVA TWLLHLAVAD LLCLSLPIL AVPIARGGHW
PYGAVGCRAL PSILLTMYA SVLLLAALSA DLCLALGPA WWSVTQVACG
VQVACGAAWT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSSTENAV
TAIRFLFGFL GPLVAVASCH SALLCWAARR CRPLGTAIVV GFVVCWAPYH
LLGL VLTVA PNSALLARAL RAEPLIVGLA LAHSCNPMFL FLYFGRAQLR
RSLPAACHWA LRESQQDES VDSKSTSHD LVSEMEV
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Homo
sapiens

P

NP_060955.1

G Protein-
Coupled Receptor
C5L2

190437

591

Homo
sapiens

A

LG94114

G Protein-
Coupled Receptor
Ls190438

190438

592

594	190484	G Protein-Coupled Receptor Ls190484	LG95579	<p>AQDPVKPWQL LENMYNLTFH VGGLPLRFDS SGNVDM EYDL KLWVWQGSVP RLHDVGRFNG SLRTERLKUR WHITSDNQVRP QACAQKPSR CSRQCQEGQV RRVKGFHSCC YDCVDCEAGS YRQNPDDIAC TFCGQDEWSP ERSTRCFRR SRFLAWGEPA VLLLLLLSL ALGLVLAALG LRVHHRD SPL VQASGGPLAC FGLVCLGLVC LSVLLFPQSP SPARCLAAQPP LSHPLTGTCL STLFLQAAEI FVSESLPLSW ADRLSGCLRG PWA WL VVLLA MLVEVALCTW YLVAFPPEVV TDWHMLPTEA LVHCRTRSWV SFGLAHATNA TLAFCLFLGT FLVRSQPGRY NRARGLTFAM LAYFITWVSF VPLLANVQVV LRPVQVMGAL LLCVLGILAA FHLPRCYLLM RQPG LNTPEF F</p> <p>ictgactggc tggctctct gctgctcctg gggctcttca ctgctcttgg gggctcttgg gttctggac cctcacggcg gggctctggcc cggggccgcc tctggccggcg tctgcttggc gcttctct tcaagagcgag gaggctggcg tggctcttca agggccctgg gggtagggatg cgaagagaggg gttggggag cttcatca gggactggcg acagactggc cagcagggcg aggggtctgg acgttagtgt ctggctgg ctggggcaca gaaatgact gttggctggcg catgaagttc agctgctggct gggctgtggc atcgactgt gggctggccg tagggttcag ctgctggctga gctgtggctga cggatctggc ctggaggtgg gggctcact gaggtctggcg cacaagatcc atctgtgact gggctctggc catggctct ggcagatgg gacacagaa atciagctgg gtctgtggct cagtggggct gaaagctggcc gggccctct cgcagagagc tggctggag gacgagagc cggagctggc cagggtctgg aggtcggcac tggccatggag gcaagagggag gggctggagc agctgttggag taggtatcag taggtggag agaaacagggc ctccagagc aggttagccag agtagagctg ccacagggag gccaagggag gcaagctggcg cagctggag ggcagctca ggaacata gggctggcag aggtctggc ccacacagggc gaaagctggc cagctggcg gctgtgtg gggtggcgag gttggcag ctgtggctgg gttggcagc tggcagagag gcaagaggg gaaagggcagc aagggccca ggactctcag catctcag gaaagctct cgtgttccca gaaagctcag caatgaa gttctggc ccaagctggc ggctggggag agaaacagc gggcagctg aaggtgtggc ccaagctc gacacagggc cagaaacagc gggcagggc gactggcg gggcagggc agaaagggc gcaagctggc agcagggc ggttggag gttggcgggc gggcagggc ggcgggag gtaagagag cccacagag agtagggag gttggcagc gctgttccca gttggcagggc tccccatgg cagatctca ggaagggag gggcgctgct gccaagggag agaaagctga gttggcagc cttggcagggc gcaagctggc acggctgcca gctccatggc gggctggg gggcgccagc cagggcagc accatggc tggcagggc agggcagc ggggcagcag gaaagagggc tccagggc cttgggggta ggaagcttca tcaatggc ctgtggggc cttgtggc gtggcagcag gttcagctc caggttagt tccatggc gttggggc gttggggc gttggggc gttggggc aaacagag gttgttagt accagagat ggaagagc gttgtggc cttcagggc gttcagggc gttcagggc cattgcat accatggc taatctat algcagag cttgagggc algactcat ggaagctca tacaatcat tttcag cattgcat accatggc taatctat algcagag cttgagggc algactcat ggaagctca tacaatcat tttcag</p>	Homo sapiens
595	190484	G Protein-Coupled Receptor Ls190484	ENSMIPRT2619	<p>MEADLGATGH RPRTLEDDDED SYPGGGWDIV FLVALLLGL PANGLMAWLA GSOARHGAGT RLALLLSLA LSDFLAAA AFQLEIRHG GHWPLGTAAAC RFYFLWGVS YSSGLFLAA LSLDRCLLAL CPHWYPGHRP VRLPLWVCAG VWVLAFLSV PWLVFPEAAV WWYDLVICLD FWDSEELSLR MLEVLGGLP FLLLVCVHL TQATACRTCH RQQPAACRG FARVARTILS AYVVLRLPYQ LAQLLYLAF LWDVYSGYLLW EALVYSDYLI LLNSCLSPFL CLMASADLRT LLRSVLSFA AALCEERPGS FTFTPTQJQL DSEGTLPPEP MAFAQSOMDP VAQPQVNPFL QPRSDPTAQF QLNPTAQFQS DPTAQQLNL MAQPQSDSVA QPQADTNVQT PAPAASSVPS PCDEASPTPS SHPTPGALED PATPPASEGE SPSSSTPPEAA PGAGP</p>	Homo sapiens

596	190595	G Protein- Coupled Receptor SH120	NM_016334	A	Homo sapiens	<p>agcaactggg aaaaaggcaga ccgagigaggg gggccctggg cccagccgg cggcggccg gggggaggggg aagggggggg</p> <p>aggagccctc ctacacctic gccatgagtt tcttgatcga cccagcatic agatatact cccataatact attttggga ttgggggggg</p> <p>ttttttcat gggcccaatg tttaagact atgagatagc tcaatgatt gtaacggggg tcatctccg gacgtttggca ttucttggca</p> <p>ccatgttga gctcaticc ttgaaact tagggagttt gataagcag tccgtttat ttacatggaa aatgaaacct gggttaatic</p> <p>tgtctgaact ggttttcag gggcccttt acatggcta ttatttgg agcaatcgg gactatcga taaacaacga cggcttttt</p> <p>ccgtctatt atggctgacc ttatgtatt tctctggaa actaaggagat cccattccca ttctacccccc aaaaacatgggg atctatcca</p> <p>tagaacaagct caicagccggg gttgggttga ttggagtgag tctcagggct ctcttttgc gatttggggc tggcaacggc ccaataactt</p> <p>acatgtctta cttctcaggg aatgtgactg acacagatat tctagccctg gaaaggcgag tgcctgcaac catgggtatg</p> <p>atcataagca aaaaagaaaag gtagggcaatg gcaaggagaa caatgttcca gaaaggggggaa gggcataaaca aaocatacagg</p> <p>ttcttggggga agataaaaaa ggtttaccac ttacggcalca ggaagtgaaa atcttacct taitcaacag gaaagtggag cttgggaaga</p> <p>atgaagcagg cagcttttc tggaaacagg tgaatctat gctaacagg aggaagataga atactccaaa accctcaagg</p> <p>gggaataatt taatttctt ggtttacttt tctctatt cgtgtttgg aaaaattca tggctaccat caaatgttt ttggtctgag</p> <p>ttgggaanaac ggaatctgtc acaagaggca ttgaatcac tggtaatat cggggaaatc aattgagtt gaaagtgttgg tcccaacaca</p> <p>tttcttcat tctgttga ataatcag tcaatccat cagggggatt cggatcacac ttacaaagt cttaatggcc atctctagca</p> <p>gtaagcttc caatgtcatt gtccgtctat tagcacagat aatggggcag taatttggct cctcgtgct gcttgatccga atgagttatg</p> <p>ctttagaata ccggacata atcatctgaag tcttggga agtgccagtc aactctatc accgttgggt ttatgtatc ttcttgggca</p> <p>ggcgtctctc tagcatact ttctctatt tggctcaca acaggccacca gaaagagcaaa tggcacacctg aactaaagcc</p> <p>tactacagac tgttagaggc cagggtttc aaaaattaga taataagggg ggggaanaatg gaaocaggggc cggacattt</p> <p>ataaacaac aaaaatgctat ggtagcatt ttcaacttca tagcatact cttcccttc aggtatcac atgaaatga gtagcatcag</p> <p>ccagaaatg agagggagaa ctactcaag acaatactca gcaagagagca tccgggttgg atatgaggct ggttgaaggg</p> <p>cggagagagg ccagaaact aaggttga aaataccttgg aactctgggg caagaaatgt ctatggtagc tgaagccaaac</p> <p>acgtagatt tccgtttta ggtcacatg gaaaagggtta tagctttgoc ttgagattga ctaataaa tcaagagact t</p> <p>MSFLIDSSIM ITSQLFFGF GWLFFMRQLF KDYEIRQYV VQVFSVTF AF SCTMFELIIF</p> <p>EILGVLNSSL RYFHWKMNLC VILLILVFMV PFYIGYFIVS NIRLLHKQRL</p> <p>LFSCLLWLTF MYFFWKLGD PFFLSPKHGI LSIEQLISRV GVIGVTLMAL</p> <p>LSGFGAVNCP YTYMSYFLRN VIDIDILALE RRLQTMDMI ISKKKRMAMA</p> <p>RRTMFQKGEV HNKPSGFWGM IKSVTTSAG SENLTIQQE VDALEELSRQ</p> <p>LLEETADLYA TKRIEYSKT FKGYFNFLG YFFSYCVWK IFMATINVF</p> <p>DRVGKTDPTV RGIEITVNYL GIQFDVKFWS QHISFLVGI IIVTSIRGLL IILTKFFYAI</p> <p>SSKSSNVIV LLLAQIMGMY FVSSVLLIRM SMPLEYRTII TEVLGELQFN</p> <p>FYHRWFDVTF LVSALSSILF LYLAKHQAPE KQMAP</p> <p>aggctgcaggg cggggcgtgc tggagccgggg gcccggccgg cggccgcagag atgtgactcg gggccgaaggc cagcttggagg</p> <p>gtcggcgctg cggggccggc gggggcggat gttcgttggca tcaagagagaa agatagagag tcaocagggtg ctacacttcc</p> <p>tctgtctct cgttatcac tgggtggct cggaaacgc cagtcacatc cgaaggctgtg ggtcgtggact cctccctcag</p> <p>taagggtccc tgtgcagact ggaagccatc tggggcaatg tgggttggagg ggttggccggg gggggccccc tgaatcacat</p> <p>gctctctgag ctactctcc tgggtgggct gcccctcalt aaggttgaagg agaaagaaag cccgttggggc ctccactttc</p> <p>tgttctctc ggggaacctg gggcttttgg ggtcagctt tgccttcat atccagagagg acgaagaaatc cgtctctgic</p> <p>cggccgttcc tcttggggct ccttttgg ctcgtctct ccttggct tggagagagga tggccggggc ggaaggcttgggt</p> <p>ggggcaltggc aaggggccccc cggggcggca gcttgggggg cttgggtctgt gcttggatct ggttggcaagtc atcagctcag</p> <p>tgaagtggct ggttggctcac gttcgtgag acacaaaggccc agccctggccg taaggagccca tggactttgt gattggccctc</p>
597	190595	G Protein- Coupled Receptor SH120	NP_057418.1	P	Homo sapiens	<p>MSFLIDSSIM ITSQLFFGF GWLFFMRQLF KDYEIRQYV VQVFSVTF AF SCTMFELIIF</p> <p>EILGVLNSSL RYFHWKMNLC VILLILVFMV PFYIGYFIVS NIRLLHKQRL</p> <p>LFSCLLWLTF MYFFWKLGD PFFLSPKHGI LSIEQLISRV GVIGVTLMAL</p> <p>LSGFGAVNCP YTYMSYFLRN VIDIDILALE RRLQTMDMI ISKKKRMAMA</p> <p>RRTMFQKGEV HNKPSGFWGM IKSVTTSAG SENLTIQQE VDALEELSRQ</p> <p>LLEETADLYA TKRIEYSKT FKGYFNFLG YFFSYCVWK IFMATINVF</p> <p>DRVGKTDPTV RGIEITVNYL GIQFDVKFWS QHISFLVGI IIVTSIRGLL IILTKFFYAI</p> <p>SSKSSNVIV LLLAQIMGMY FVSSVLLIRM SMPLEYRTII TEVLGELQFN</p> <p>FYHRWFDVTF LVSALSSILF LYLAKHQAPE KQMAP</p> <p>aggctgcaggg cggggcgtgc tggagccgggg gcccggccgg cggccgcagag atgtgactcg gggccgaaggc cagcttggagg</p> <p>gtcggcgctg cggggccggc gggggcggat gttcgttggca tcaagagagaa agatagagag tcaocagggtg ctacacttcc</p> <p>tctgtctct cgttatcac tgggtggct cggaaacgc cagtcacatc cgaaggctgtg ggtcgtggact cctccctcag</p> <p>taagggtccc tgtgcagact ggaagccatc tggggcaatg tgggttggagg ggttggccggg gggggccccc tgaatcacat</p> <p>gctctctgag ctactctcc tgggtgggct gcccctcalt aaggttgaagg agaaagaaag cccgttggggc ctccactttc</p> <p>tgttctctc ggggaacctg gggcttttgg ggtcagctt tgccttcat atccagagagg acgaagaaatc cgtctctgic</p> <p>cggccgttcc tcttggggct ccttttgg ctcgtctct ccttggct tggagagagga tggccggggc ggaaggcttgggt</p> <p>ggggcaltggc aaggggccccc cggggcggca gcttgggggg cttgggtctgt gcttggatct ggttggcaagtc atcagctcag</p> <p>tgaagtggct ggttggctcac gttcgtgag acacaaaggccc agccctggccg taaggagccca tggactttgt gattggccctc</p>
598	190599	G Protein- Coupled Receptor GPCR5B	NM_016235	A	Homo sapiens	<p>aggctgcaggg cggggcgtgc tggagccgggg gcccggccgg cggccgcagag atgtgactcg gggccgaaggc cagcttggagg</p> <p>gtcggcgctg cggggccggc gggggcggat gttcgttggca tcaagagagaa agatagagag tcaocagggtg ctacacttcc</p> <p>tctgtctct cgttatcac tgggtggct cggaaacgc cagtcacatc cgaaggctgtg ggtcgtggact cctccctcag</p> <p>taagggtccc tgtgcagact ggaagccatc tggggcaatg tgggttggagg ggttggccggg gggggccccc tgaatcacat</p> <p>gctctctgag ctactctcc tgggtgggct gcccctcalt aaggttgaagg agaaagaaag cccgttggggc ctccactttc</p> <p>tgttctctc ggggaacctg gggcttttgg ggtcagctt tgccttcat atccagagagg acgaagaaatc cgtctctgic</p> <p>cggccgttcc tcttggggct ccttttgg ctcgtctct ccttggct tggagagagga tggccggggc ggaaggcttgggt</p> <p>ggggcaltggc aaggggccccc cggggcggca gcttgggggg cttgggtctgt gcttggatct ggttggcaagtc atcagctcag</p> <p>tgaagtggct ggttggctcac gttcgtgag acacaaaggccc agccctggccg taaggagccca tggactttgt gattggccctc</p>

599	190599	G Protein- Coupled Receptor GPCR5B	NP_057319.1	MFVASERKMR AHQVLTFLLL FVITSVASEN ASTSRGCGGLD LLPQYVSLCD LDAIWGVVE AVAGAGALIT LLLMLILLVR LPFIKEKEKK SPVGLHFLFL LGTGLGLGT FAFIQEDET ICSVRRELWG VLFALCFCSCL LSQAWRVRRRL VRHGTGPAGW QLVLGLALCLM LVQVILAVEW LVLTVLTRDTR PACAYEPMDF VMALIYDMVL LVVTLGLALF TLGCKFKRWK LNGAFLLITA FLSVLIVWAW MTMYLFGNVK LQQGDWNDP TLAITLAASG WVVFIFHAIP EIHCITLLPAL QENTPNYFDT SQPRMRETAF EEDVQLPRAY MENKAFSMDE HNAALRTAGF PNGLGKRPS GSLGKRPSAP FRSNVYQPT E MAVVLNGGTI PTAPPSHTGR HLW	P	Homo sapiens
600	190602	G Protein- Coupled Receptor GPCR150	NM_014373	gfggcctcga gfgfgfggca gggcgcgccc cfgcaglcgc gaggcgaacg cagggacggg ggcctcggag gcaagggtcgg cfggaaaggaa cgcctcgcgc ttgcctctac acttgcgcaa agtctccga gctctacac atagctatt ggtataicaa aatgaaatgc aagggaacca aaataacata attgaagcca gtaaaagtga aataaataag gaagatcac agtcaaggaa gacccactgg agaggacaga aaatgaagca gfgttttac agtfgtatt cagcaggctc tcttgaatt taactaaaaa tatcactgct ctctctcag agaaactgctc ttucagtagc cagttacgic aaacaaccca gcccttagac gtaataic tgcctatctc gcatcactat gggaaaaaat tattaaatat octtacctca ggaalagaa gaaaaaacac ctgtcaaat ttalggaa attttgcat ttactagca ttcttgatc	A	Homo sapiens

601	190602	G Protein-Coupled Receptor GPCR150	NP_055188.1			<p>tthacattt gggaacatt locathat igatatttga ctthaa gca ttgggttcaac taataaac atctgoccat</p> <p>ttaactaat tatttcttt actatggct tttagaalla tccagtttc ctgacagctt gtaataatta ttgocctgaat tictataaa</p> <p>caaccaagct ttactiaaag tgcataaat tatttaatt cttaacaga atttaatt ggatnaccgt ccttgctat gtttgaggag</p> <p>atccagccat ctaccaagc ctgaaggcac agaatgctta ttctgtcac ttgctctct atgcagcgt tcaagatgaac ttgctgtcat</p> <p>ttttcagtt gattgatttt ttgtatcct tcaaacctg ttgggaagaa gtaactat ttggacaggg talcaggata acttactata</p> <p>tgatgaac tatctatatt ttcttttt cagtccact cagtataact gttgaatccta aaaaaattt ctatccaa gctatgtct</p> <p>gtttctcag taactggta ccaattgtac tacttcaggt aatcattgt ttactaaag ttcaagattcc agcatalattt gtagatgaata</p> <p>ttoccttggtt alactgttc aatagtntc tcaagtctac agtgaattgg tttaattgc acaagcttaa tttaaaagac attggaatc</p> <p>cttggtatcc attgtcaac ttggaatgct gctcattcc acttaaat cctaatct agcaaatga aaagcttata tcaataga</p> <p>tttgtaata ttatataa aaagtatacag ctgtcatag atcaaat ttatgaacaga aagaactcag gacatataa aaaaataact</p> <p>gaactaaac aactttggcc ccttgactga tagcattca gaaatgct ttgaagggg tatacagtt ataaatagt gttatatt</p> <p>aaaaacaaa taattccaag agttttat agttatcag ggacactata ttacaatt ttacttgta ttacacaaa agtgaataag</p> <p>agtaacatt ttggtatact gattgttg ttactcaaa aaactcagg atgcaaatg ttatgaat ctgaagttc actgaacact</p> <p>ttaaatc aaactaaaca ttattata agttcaat gtaagcaaga aaaaaaaa</p> <p>MTALSENCS FQYQLRQTNQ PLDVNYLLFL ILGLKILLNL LTLGMRKNT</p> <p>CQNFMEYFCI SLAFVDLLL VNISILYFR DFVLLSIRFT KYHICLFTQI ISFTYGFLHY</p> <p>PVFLTACIDY CLNFSKTIKL SFKQCKLFYF FTVILIWSV LAYVLGDPAL</p> <p>YQSLKAQNAY SRHCFYVSI QSYWLSFFMV MILFVAFTTC WEEVITLVQA</p> <p>IRITSYMNET ILYFPSSHS SYTVRSKKIF LSKLIVCFLS TWLPFVLLQV IIVLKVQIP</p> <p>AYIEMNPWL YFVNSFLIAT VYWFNCHKLN LKDIGLPLDP FVNWKCCFP</p> <p>LITPNLEQIE KPISIMIC</p>	P	Homo sapiens
602	190623	Melanopsin	AF147788			<p>ggttccaac caatcagaca cagcttccag ccaggacagc ttgggacaga gtagtcatag gaaagacatg gaaaggctgaagg</p> <p>cttccacgc ggcctctgt gctccattgg atggcagct cccgggacagc gaaatgocag gttgggtgtgg gtagcaagg</p> <p>tttggagcaa gaggoccatg ttggagctcc ccaatgtggccat agaaagacagc gaaatgaagggg gttgggocct gaaatgaatct</p> <p>caatgtcaac cgaacagct gcaatgtcacg gccaatggag aaagatcaatt gtaaggtgaag acgtgtggctt ccaaaaggccc</p> <p>caaggctgggg gttccgaagc ctatgaatt tccctgaagt gctctttga ggcctgtggc accctgggga ttgtgaatcc cgcctatgt</p> <p>gtccactga caagcactc tccctggagc tccctgtgct gctccatcac ctgacacccc ttttaattag caatgtggag</p> <p>agtgtgggtcc acatgaatg gtaagttgt ttgaatcaga attgtccca gctgtgaagaa attgtaaac cccataatc</p> <p>aaacgcaagc agctgtgcaat gaaatcagggg acagaagaaga aaagcggccc ctacggctca cccctggccccc aggggtggct</p> <p>ctgtgaagcca aaagccctga gttgaagaagc ctcaagaaaga agcagaatct agccatggggc ttggcagctg caggaaatga</p> <p>gctccctgct ccaatggagc ttctccact ttctgtctc aaactgggg ctcaatgaaga actgtttga agatcgtggg</p> <p>gaactctgg aatgaatgaatg alattctgt ccaactcagg gctccaaac tccatgaact gttgcaaggaac attggcccca</p> <p>ctagaatga cccctggccc gtcgggctcc ccaaacgca gctctgtgt gcaaggctcag cccgaagcagc cctccctggga</p> <p>agccgtgtgt tcaagctcc ttctccag ctctgtctg ctctctaa gcaagggtcag gggcagggccc ggggtgcccc</p> <p>ccactctga caatcagta acttgaatca ggcctgtcagg cctgggtgag ttccctgggac tctccataa aggttttaa aaacttat</p> <p>actttaaaa ttctgtccgg gcccagttgg tcaagctgt aatctggca cttggggagc cgaagggtggg ttgtatcaact</p> <p>gaaggtcagga gttcgaagct agctgtgcca acatgttga ctccctcc ttctaaatat acaaaattta gccaatgtgt</p> <p>gtggcgaagt cctgaatcc agctactgg gtaaggctgaat gctgtggacc ttgggaaggccg aaagtgtcag</p> <p>gagctgaagat tgcacaaat cactcagg ttgggtgaag agcaaggaatg tctcaaaa atataaaaa aaaaaataa</p> <p>acttttat caaaaaaa gcaaaagccc cctgtgtatc tgaatcac ctactgtac attcctcttg ttgtccatc ttgtaaaagg</p>	A	Homo sapiens

[illegible]

604	190627	G Protein-Coupled Receptor GPR41 & GPR42	NM_005304	sapiens	<p>GTWAAA WVPL PTVDPDHAH YTLGTIVLLV GLTGMLGNLT VYTFCSR</p> <p>LRTPANMFH NLA VSDFLMS FTQAPVFTS SLYKQWLFGE TGCEFYAF</p> <p>ALFGISSMIT LTAIALDRYL VITRPLATFG VASKRRAAFV LLGVWLYA</p> <p>WSLPFFFGWS AYVEGGLTS CSWDYMSFTP AVRAYTMLLC CFVFFLPLLI IYCYTIFR</p> <p>AIRETRALQ TFGACKNGE SLWQRQLQS ECKMAKIMLL VILLFVLSWA</p> <p>PYSAVAL VAF AGYAHVLTPT MSSVPVIAK ASAIHNPIY AITHPKYRVA</p> <p>IAQHLPCLV LLGVSRHRSR PYPYSRSTHR SILTSHTSNL SWISIRRRQE</p> <p>SLGSESEVGW THMEAAA VVG AAQQANGRSY YGQGLEDLA KAPRPQGH</p> <p>AETPGTKGL IPSQDPRM</p> <p>atgagatag gcccagcca gtctacttc tccggcaalc actggtctgt ctctcggg ttacttctca ctctcgtgt ggggtctccc</p> <p>ctcaactgc tggccctggt ggtctcgg ggcaagctgc agcgcgcgcc ggtggccggg gacgtgctcc tgcctcaact</p> <p>gaccgctcg gactgctcc tgcgtggt ctgctcttc cgcagtggg agcagagcaa tggcagcac tggccctg</p> <p>cttcaact ctgcacac tctggaitca tctcttca caactat ctacggcc tctctggc agctgtag atgagct</p> <p>ttctgtag ggcacacca ctggtgata agatccggcc gaggctgggg cagcagaggt tggtaggt ggcctgctg</p> <p>ctgtggct ctgtcact cagcgtggg tacttcalag aattcagg ggcactcc caccagccagg gcatcaatgg</p> <p>gactgctac ctggagttc ggaaggaoca gctagccatc ctctgcgc tgcggctgga gtaggctggg gctcttgg</p> <p>tggctccgt gattatcc agctactgt accagcgt ggtgtggatc ctggcagag ggggagacca ccgcggcag</p> <p>aggagggtgg cggggctgtt ggcggccagg ctctcaact tctgtctg ctggggccc taccaggtt cctatgctgt</p> <p>gggtatct tgcgggga gcccggcagg gaggatctac gtagcttc tgcagctcc gaaactctgt gtcgacccc</p> <p>tgtactia ctctctcc tccgggtcc aagcgtact tcatggcc ctggagcgt tggtaggt ctggggccag</p> <p>tggcagcagg agagcagcag gtagctgagg gtaggagagg gcaagagagg gacagagacc ctgaaagaaa</p> <p>gacagagaa cactacagg gctgtggag tggggccag gtaggctggg ctgaaagctia g</p> <p>MDTGPDQSYF SGNHWFVSV YLLTFLVGLP LNLALVVFV GKLRPRVAV</p> <p>DVLLNLNTAS DLLLLFLPF RMVEAANGMH WPLPFLCPL SGFIFFITY</p> <p>LTALFLAAVS IERFLVAHP LWYKTRPRLG QAGLVSVACW LLSAHC</p> <p>SVYIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVVPLIIT</p> <p>SYCYSRVWL LGRGGSHRRQ RRVAGLLAAT LLNFLVCFGP YNVSHVVG</p> <p>CGESPAWRUY VTLSTLNSC VDPFVYFSS SGFQADFHEL LRRLCGLWGQ</p> <p>WQQESSMELK EQKGEEQRA DRPAERKTSE HSQCGGTGGQ VACAES</p> <p>caagactgt cctctgccc gactacaca gatggagg ccctgtgg agcagaacca gcaacagat tatattag</p> <p>aggaaatga aatgaagg actatgact acagtaata tgaactgac tgaatcag aagatgtag agaatgca aaagtctcc</p> <p>ttcctgatt cctcaata gttttgta tggactgc aggcattcc atggtaggg caattatgc ctattacag aaacagagaa</p> <p>ccaaacaga tggatcac ctgaattgg ctgtagcaga ttactctt ctatcac tgccttgg gctgtgaa gcatgtcag</p> <p>gggtgggttt agggaaata atgtgcaaaa taactcagc ctgtacaca ctgaacttg tctctggaat gcaatttctg</p> <p>gcatgagcag alattggca gtaacaaag tccocagcca atcaggagtg ggaacacat gctggatcat ctgttctgt</p> <p>gctgtaggg ctgccatct gctgagcaga cccagctgg tttttatc agtaaatgac aatgtaggt gcaatccat ttccccgc</p> <p>tacctagaa catcaatgaa agcatgatt caaatgtag agatctgg tggattgta gtaaccttc ttattggg ggtgtgctac</p> <p>ttatcacag caagactat calgagag ocaacatta aaatctcg accctaaaa gttctgctca cagctgtat agtttcat</p> <p>gtcaatcac tgcctataa cattgcaag tcttgccgag ccatagacat catctacc ctgatcaoca gctgcaacat</p> <p>gagcaaacgc atggacatg ccatcaagt caccagagc atcgactct ttacagagct cctcaacca alctttatg</p>
605	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	Homo sapiens	<p>MDTGPDQSYF SGNHWFVSV YLLTFLVGLP LNLALVVFV GKLRPRVAV</p> <p>DVLLNLNTAS DLLLLFLPF RMVEAANGMH WPLPFLCPL SGFIFFITY</p> <p>LTALFLAAVS IERFLVAHP LWYKTRPRLG QAGLVSVACW LLSAHC</p> <p>SVYIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVVPLIIT</p> <p>SYCYSRVWL LGRGGSHRRQ RRVAGLLAAT LLNFLVCFGP YNVSHVVG</p> <p>CGESPAWRUY VTLSTLNSC VDPFVYFSS SGFQADFHEL LRRLCGLWGQ</p> <p>WQQESSMELK EQKGEEQRA DRPAERKTSE HSQCGGTGGQ VACAES</p> <p>caagactgt cctctgccc gactacaca gatggagg ccctgtgg agcagaacca gcaacagat tatattag</p> <p>aggaaatga aatgaagg actatgact acagtaata tgaactgac tgaatcag aagatgtag agaatgca aaagtctcc</p> <p>ttcctgatt cctcaata gttttgta tggactgc aggcattcc atggtaggg caattatgc ctattacag aaacagagaa</p> <p>ccaaacaga tggatcac ctgaattgg ctgtagcaga ttactctt ctatcac tgccttgg gctgtgaa gcatgtcag</p> <p>gggtgggttt agggaaata atgtgcaaaa taactcagc ctgtacaca ctgaacttg tctctggaat gcaatttctg</p> <p>gcatgagcag alattggca gtaacaaag tccocagcca atcaggagtg ggaacacat gctggatcat ctgttctgt</p> <p>gctgtaggg ctgccatct gctgagcaga cccagctgg tttttatc agtaaatgac aatgtaggt gcaatccat ttccccgc</p> <p>tacctagaa catcaatgaa agcatgatt caaatgtag agatctgg tggattgta gtaaccttc ttattggg ggtgtgctac</p> <p>ttatcacag caagactat calgagag ocaacatta aaatctcg accctaaaa gttctgctca cagctgtat agtttcat</p> <p>gtcaatcac tgcctataa cattgcaag tcttgccgag ccatagacat catctacc ctgatcaoca gctgcaacat</p> <p>gagcaaacgc atggacatg ccatcaagt caccagagc atcgactct ttacagagct cctcaacca alctttatg</p>
606	190701	C-C Chemokine Receptor 11	NM_016557	Homo sapiens	<p>MDTGPDQSYF SGNHWFVSV YLLTFLVGLP LNLALVVFV GKLRPRVAV</p> <p>DVLLNLNTAS DLLLLFLPF RMVEAANGMH WPLPFLCPL SGFIFFITY</p> <p>LTALFLAAVS IERFLVAHP LWYKTRPRLG QAGLVSVACW LLSAHC</p> <p>SVYIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVVPLIIT</p> <p>SYCYSRVWL LGRGGSHRRQ RRVAGLLAAT LLNFLVCFGP YNVSHVVG</p> <p>CGESPAWRUY VTLSTLNSC VDPFVYFSS SGFQADFHEL LRRLCGLWGQ</p> <p>WQQESSMELK EQKGEEQRA DRPAERKTSE HSQCGGTGGQ VACAES</p> <p>caagactgt cctctgccc gactacaca gatggagg ccctgtgg agcagaacca gcaacagat tatattag</p> <p>aggaaatga aatgaagg actatgact acagtaata tgaactgac tgaatcag aagatgtag agaatgca aaagtctcc</p> <p>ttcctgatt cctcaata gttttgta tggactgc aggcattcc atggtaggg caattatgc ctattacag aaacagagaa</p> <p>ccaaacaga tggatcac ctgaattgg ctgtagcaga ttactctt ctatcac tgccttgg gctgtgaa gcatgtcag</p> <p>gggtgggttt agggaaata atgtgcaaaa taactcagc ctgtacaca ctgaacttg tctctggaat gcaatttctg</p> <p>gcatgagcag alattggca gtaacaaag tccocagcca atcaggagtg ggaacacat gctggatcat ctgttctgt</p> <p>gctgtaggg ctgccatct gctgagcaga cccagctgg tttttatc agtaaatgac aatgtaggt gcaatccat ttccccgc</p> <p>tacctagaa catcaatgaa agcatgatt caaatgtag agatctgg tggattgta gtaaccttc ttattggg ggtgtgctac</p> <p>ttatcacag caagactat calgagag ocaacatta aaatctcg accctaaaa gttctgctca cagctgtat agtttcat</p> <p>gtcaatcac tgcctataa cattgcaag tcttgccgag ccatagacat catctacc ctgatcaoca gctgcaacat</p> <p>gagcaaacgc atggacatg ccatcaagt caccagagc atcgactct ttacagagct cctcaacca alctttatg</p>

607	190701	C-C Chemokine Receptor 11	NP_015764.1	<p>ttttatggg agcatcttc aaaaactacg ttatgaaagt gggccaagaaa talgggtctt ggaagaaagaca gaagacaaagt gggaagaaagt ttcttttga ttctgaagggt ctiacagagac caaccagatc tttagcatt taagaagtataa actgtctctgc ctttggcttg gaatacatag aatgaatgcti tccctcaaa taanaacatc gcatattcti gaaactcaaa tctcagagac cgtgggtgaca actataata aaagaaagggt (ggggggaagg ggggaagaaata aagggccaaga agaaagaaata agataataaa tctacaaaac agtaaaatla aaatgaacaa tatagaaata taattgtaac aggcataagt gaataacacat ctgtctgtaac gaagaaagac ttgggtgtga taatttga tctgtgtgc agtgggtcti alacaaatc acagaagta taanaigtga caagaaatla taacacatt gaacacatt caatttctg gtttgacat tatagtataa tatgtaga tggaaacatt ggggaagaaat ggggtgaaggg tacocaggagac caactctgac caacttggta acttctgtg aatttataat aatttcaaa taagaacagt taanaaaaaa occactatgg talaagttag gocatctaaa acagattatt aaaagagtic agttaaaag gcatattataa ttattttaa ttactaagt ttatacaaa gaacgatc cctgtcataa ttatgtact gaataagat gacagagaac tccaactatc ttitttctg ttittttaa attgtagaat aatttataa aatccaactc ctccaataaa gcaataaaaa aaaaacaaac tataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa</p> <p>MALEQNQSTD YYYEENEMNG TYDYSQYELI CIKEDVREFA KVF LPVFL TI VFVIGLAGNS MWVAIYAYK KQRTKTDVYI LNLAVADLL LFTLPFWAVN AVHGWLGLKIMCKITSALYT LNFVSGMQFL ACISDRYVA VTKVPSQSGV GKPCWICFC VWMAALLSI PQLVFTVND NARCIFFPR YLGTSMKALI QMLEICIGFV VPFLMGVCY FITARTLMKM PNKISRPLK VLLTVVIVI VTQLPYNIVK FCRADIIYS LITSCNMSKR MDIAIQVTES IALFHSLNP ILVFMGASF KNYVMKVAKK YGSWRQRQQS VEEFPDSEG PTEPTSTFSI</p>	P	Homo sapiens
608	190705	G Protein-Coupled Receptor SALPR	NM_016568	<p>gatttgggga gtaagcgc agtgcocacag tgaocggggg acacgggaagag ggggaagctg cgtgtgaacat aaggaacacag ggactccagag ctggcctga gaaacctggg aggcctggctg ctggctaac gggctgacat cctcaactc gctccaagc agccgctcag ctcaactct gctgocagggg cgtctcctgc gcgocagggg gcgcttagta cccaactct gggctctctc ttcagtagct gctttgaag ctccacgca cgtcccgca gctagccgca caaataact ggggtgaac accatgtat aggtctgtc cccagaacaa tgaactagag gtaactggc atgcaagatgg cgaagtcagc caagtaagcc accatgtat agggcaagcag cgggttcag ctacagaaac tctcagct ggtccgggac ctctggaagg cggccaacac gaagtgtaac gcgtcgtgc agcttccgga ctgtgtgtg gaagctggggg tgggaagtgc ggggaagctgc cggcaagctgc atccccggg cagcggcggg gcaagagag cgggaacaa gggccgggg cgggaatc tgaagcgtgt gtaactgggt gttgtgtgtgt tgggggtgg gggcaaacct ctgggtctt acctgatga gaagtcagagg ggcctgggca agtctat caactctc gtcaccac cgtgcgtgac ggaattcag ttgtgtca cctgtccct ctgggggtgt gaagaaagctc ttgaattcaa atggccctc gggcaaggcca ttgtgaagat cgtgtccatg gtagcgtoca tgaacatga cggcagcgtg ttcttccca ctgtccatga ttgtgaagctc taccatcgtg ttgtgtcggc tctgaagag caacgggaac gaaggaacagg cgggggggac tctcggggcc ggaagctgggg ggaacagctgc tctctcggg ccaagcgtct gttgtgtgtgt atctgggtgt tggccggct gggtcgtgt cccaattgcca ttctcacc caaggtcag gttgtgtgtgt aggaagctgt cgtgtgtgtgt ttcccggaca agttgtgtgt cggcggaagc cagttctggc ttgtgtgtgt cactcggc aggtgtgtgt tgggtgtgtgt gttgtgtgtgt gggtcatc tctgtgtgt cgtgtgtgt gttgtgtgt tggccgggac cggcggaac ggggaacaaag gaagggggcc gggaagcggga ggaagggccga cggccggga cgtgtgtgt tgaagcgtgt tcaacatc agttgaacatc gttgtgtgt catttctgt gttgtgtgt cccaacagg cgtgtgtgt cttcaatc tgaagcgtgt tcaacgggt ggtgtgtgt caggtgtgt tctgtgtgt ggtgtgtgt ttccgtgt gttgtgtgt aggtgtgtgt aacaggtgt tcaacgggt cctctgtgt cgtgtgtgt gttgtgtgt caaggtgtgt aggtgtgtgt gttgtgtgt cgtgtgtgt tgaagcgtgt gcaaggtgt cttcaacggc actcaacagg gttgtgtgtgt cgtgtgtgt cgtgtgtgt cgtgtgtgt cgtgtgtgt</p>	A	Homo sapiens

Homo sapiens

P

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ELGLEPDGA PGHPGSGG AESADTEARV RILISVYVWV VCALGLAGNL
LVLYMKSMQ GWRKSSINLF VTNLALIDFQ FVLTLFWAV ENALDFKWP
GKAMCKIVSM VTSNMVYASV FFLTAMSVTR YHVSASALKS HRTRGHGRGD
CCGRSLGDS CFSAKALCVW IWALAALASL PSAFSTTVK VMGEELCLVR
FPDKLLGRDR QFWLGLYHSQ KVLGFLVPL GHILCYLLL VRFIADRRAA
GTKGGAAVAG GRPTGASARR LSKVTKSVTI VVLSFLCWL PNQALTTWSI
LIKFNAPVFS QEYFLCQVYA FVSVCLAHNS NSCLNPVLYC LVRREFRKAL
KSLWRIASP SITSMRPFTA TTKPEHEDQG LQAPAPPHAA AEPDLLYYP
GVVYSGGRY DLLPSSAY

609 190705 G Protein- Coupled Receptor SALPR NP_057652.1

Homo sapiens

A

ggcagagga ttatctgt gctcagat cagatata ctagagaga gattttat ttgtttca ttaacagat attataagc
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gggaagctt acaagactga ggaataicag acgtcgtac accgggagag gttcttgc agcacagaag caatctct
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tggattat ttatgaaa atgattggat ctatcttc ctgtttta tatcagat atgagactg actgagctg tatcttalc
ctccatcat ctatgggaga ctatggcat gacgtcagca acatttggca aaactctgc ccctaacag ccttctgaa actgactcc
ttgggtttca taatggagat cagcgtgggg ggcaactcc tgaactcat ttgtctaggg aatgataaga ccttgcatag agcaacttcc
tacttctgt tggacttgg cttgtcagat atctcagat ctgcaatg ttccattt gtttcaact ctgtcaaaa tggctctac
tggacttgg ggaactctgac ttgcaaatg atgcttgc tgggggttt gtccgttcc cactctgt tcatgctct ctgcatcag
gtcaacagat actagctat cgtccatcac cgtctata caaaagggt gacatttgg accgttgg accgttgg cgtgctgic tatgggtgg
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cgtctctca gggctaatga ttacttagga ccagttccag ttgtagcagc agtccagccag aacttggacti ttcatggct
tttttggcc accgtatgag aaaaatgag ccagttccag ttgtagcagc agtccagccag aacttggacti ttcatggct
tggtagcagat ggcagagcag ctgccaatg gctagcagga ttgtgagggg gtcocacac acccaactg ctgggcatca
ggcaaatgc aaacacaca ggcagagaga ggcatttgg cttagagag ttcaaatgg agaaatgg agaaatggat cagcagag
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ccagggggggt ttcaacagc tctgtgctg atgagtttg ccacagcagg aatcaacti ttgtctgca ttctcaaa caggggggctg
aggcgtgt tcaagcacac cttcttacc tgcagaaat ccaaggatcc aaggggagat latggttga latgagggag
cattctgaaa tctatgct tggtaaat aactctct gcttagcaat tgggtccact agccatttt tgaagagaa ttcaagagatg
gaatcagcag tttaaggt ttggggcaaca ttctgagc ttggcaatg ttcaacta atctattt aaactcaga gtagctcgc
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tgaagagtag aggtgtcag tatcagct atgagctg tatgtcacta catatgaaaa aatcaaaaa aacaatttagc atgggacalc
ttaataaat aagttgacat gaggtaaat tggtagaaa aactattt agaaattga apacttaaa acatttata ctactatgt
tttgcagaaga caaaaat ttgggagctta aggtactga atccactaa gagggtccaa tgaatttgg gaatacaca cttaaaaa
cgctctgtaa gtttgggga gcatccaaa gcatgataat ggttccat ttgtttat taatacattg ctattctaa

610 190711 G Protein- Coupled Receptor GPR85 (SREB2) NM_018970

611	190711	G Protein- Coupled Receptor GPR85 (SREB2)	NP_061843.1	<p>ataccacit cctcatcac tagaagatt gctagcatg aactgtaata tgggtttt gttgattgg taataagtt ttcaattca ttatattt acaatgcta gatatggic tggagggca cattaatgt accagocgt cacactgag cagtctaat aatgcaatg aaatacatgt tggctaaag ggtatctag tatcttcat ctatttagc actggagcaa atagoccaag gaaatcaaat cagtactgg tcatggicat gcatcaaaa gfgcatggaa gatcattat tacttttc acatggttg aaacttaaa tgcacatcac tgaataatg agattttt ctacgggtg ctacocctt taaactgc taagaagcag gcatgtag tagtntaa ttaagica gctgcaagg ggaacaca gcttagtat gacatcctg acaatggg aagcaitat tcatgtag gacagictt gttatact tcigccatt cagttagt gtaatttaa ttatcagt ttaactgt gaaagctat aatgattt cggatttt agaatatc tagagctgt gactcat cttaagata cagatggg aactcaata taagtggca ttgocaaa ttacocgg tagocgtta atttctga aataagttt acatttgg cacatacaa cgttttt aatggggg gcaagcaca actagggaaga ctatcttat taggtttg cttttat cttagacta ctatacca gactggaaat gtagaaga taatcaaat aatgctgata aactgacata atatatcgt taagaagcatt attggtagi ttatataat catcctcta ttatctaa afgccagtag tattagaga tggtaaccg cttagtaat tggctcagaa tttaataata aacalcacac ttaatttgg agcatagiac calagaaat tggggttcta aatatcaac ttgaagaag aatgggttact actaacta tgaacaaact agaaaaagt attatttt ttgctttt gttgtttt ttatgttg gttttga agttattt tttagta ttgataat aagattaga atcataac acgaatttc atattctat agtactctg taagaagaat aicatalaa ataaagaaa taataalg aaatgta afggttaaa aaaaaaaa aaaa MANYSHAADN ILQNLPLTA FLKLTSLGFI IGVSVVGNLL ISILLVKDKT LHRAPYYELL DLCCSDILRS AICFPFVFNs VKNGSTWYTG TLTKCVIAFL GVLSCHTAF MLFCISVTRY LAIAHHRFYT KRLTFWTCLA VICMVVTLVS AMAFPPVLDV GTYSFIREED QCTFQHSFR ANDSLGFMLL LALILLATQL VYLKLEFVH DRRKMKPVQF VAAVSQNWTF HGPASGQAA ANWLAGFGRG PTPTLLGIR QNANTTGRRR LLVLDEFKME KRISRMFYIM TFLFLTLWGP YLVACYWRVF ARGPVVPGGF LTAAVWMSFA QAGINPFVCI FSNRELRRCF STLLYCRKS RLPREPYCVI</p>	P	Homo sapiens
612	190725	G Protein- Coupled Receptor GPR26	LG93120	<p>aggtaggg agctcttc cacgtgtcc atcggctcc actgggggt gctgtcaag tctgtgggt acagcaaggc cgcatcgac cctttgt actcttact ggcacacag taccgaaaa gctgcaagg gattctgaac aggtctcgc acagagctc catcactcc tctggctca caggcagctc tcatagcag aacatctgc cgggtgtga g MNSWDAGLAG LLVGTMGVSL LSNALVLLCL LHSADIRROA PALFTLNLTC GNLLCTVNM PLTLAGVVAR QPAGDRLCR LAFLDTFLA ANSMLSMAAL SIDRWAVVF PLSYRAKMR L RDAALMVAYT WLHALTFPA ALALSWLGFH QLYASCTLCS RRPDERLRA VFTGAFHALS FLFSFVLLCC TYLKVARFHC KRIDVITMQT LVLLVDLHPS VRERCLEEQ RRRQRATKKI STFGTFLVC FAPYVITRLV ELFTSTVPIGS HWGVLSKCLA YSKAASDPFV YSLLRHQYRK SCKEILNRL HRSIHSSGL TGDHSQNIL PVSE</p>	A	Homo sapiens
613	190725	G Protein- Coupled Receptor GPR26	LR26	<p>atggccaaca ctacggaga gcttagagag gtagcgggc ctgttccc accgtccgca tcaagtatg tgaagctgtt actctggga ctgattatgt gctgtagcct ggcgggtaac gcatctgt cctgttgg gctcaaggag cgtgcoctgc acaaagctcc ttacttctg ctgtgtgacc tggocgggc cgalggcata gctctggcc tctgtccc ctgtgtctg gctctgtgc gocacggctc ttatgacc ttcatggcac tcatggcag gattgtggcc ttatgtggcc tgtctttg ctccatggc gcttcatgc tcttctcat caggttcacc cgtatcatgg ccacgcca ccaacgttc tacgccaagc gcatgacact ctggacalg ggcgctgca tctgcatggc ctggacocgt tctgtggcca tggccttcc accgttct gacgtgggca cctacaagt tattcggag gtaggaccagt gcatcttga gcatgctac ttcaaggcca atgacagct gggcttcatg ctatgttg ctgtgtcat</p>	P	Homo sapiens
614	190741	Sreb3	NM_018969		A	Homo sapiens

615	190741	Strb3	NP_061842.1	<p>gagctctgtc acggcagaagt gctctcttc gtaglalcgic aocgcaagat gtagccagtg cagatgggag cagccalcag ocaagaaatgg acaltocalg gtccgggggc caocgggag gctctctgcca actggagagc cggctttggc cgtggggcca tgcacccaac ccgtctgggg atccggcaga atggggcagtc agccagccgg cggctactgg gcaaggacga ggctcaagggt gaaagcagc tgggocgcat gttctacgic atcacatgic tttctctgct cctctggcca cctacalcg tggctctcta cggcggagtg ttgggaaag cctggctgt gtccacccgc taactggcca cgtctgtttg gtaggcttc ggccagggcg ccgtcaaccc aattgtctgc ttctgtctca atcaaggaaat caaggaaagtc agggaaagtc acgccccctg ctggggcaca ggaagggtcc cggctccag agaaocctac tggctcgt gga MANITGEPEE VSGALSPFSA SAYVKLVLLG LIMCVSLAGN AILSLVLKE RALHKAPYYF LLDLCLADGI RSA VCFPFVL ASVRHGSSWT FSALSCKIVA FMAVLCFHA AFMLFCISVT RYMAIAHHRF YAKRMTLWTC AAVICMAWTL SVAMAFPPVF DVGTYKFIRE EDQCFEHRY FKANDJLGFMLMLAVLMAAT HAVYGKLLF EYRHRKMKPV QMVP AISQNW TFHGPAGATGQ AAANWIAFGF RGPMPPTLLG IRQNGHAASR RLLGMDEVKG EKQGRMPFYA ITLLFLLWS PYIVACYWRV FVKACAVPHR YLATAVWMSF AQAAVNPVVC FLNKLKKC LRTHAPCWGT GGAPAPREPY CVM</p>	P	Homo sapiens
616	190742	G Protein-Coupled Receptor H7TBA62	E32367	<p>gagctctgtc cagagactag agcaggaagaag ggggggaagg cggcgalaaga ggttagcagg aatgttaat tatcaggagc aggaacalga ctagaggcat gccaaggtcc acacaggccc tcataggccc agtgttcca gtagggagaga aacagggaagc tggacttcc tctcttt cctctctgc ttagcttc aaggctcctg cgtctgagat gaaaccaac cgttttagi tggcactgtt ccctgggcat ggaalagoc tctcagtaoc cttctgocac aaacaccca aactctct tggaaatat ailtataca aigtatit cacatgtat cttctatgc atcaltocac tctctgttag cagacthac tgaatatit agcagaaga acaaggcttag gggaagaaag taactctcc agtcacaggg ctatggagca gacggctgic gactccggag cctccgctct ttctctct gggaacocat gctgattccc tgcctatg ccaactcca gggcccttgc ttggggccc aagggaacac ttttgcaaga gggaaggaggg cctgcactg ttagggaacag agggcagctct agtttggctc ctgtcctc tgggaacagg aaactccag ctctctctt gggggtgaagg cttggggctg ootoccalag cgggggaaat ctctcttc ootctctct ctgcaattt gaggccctct tacaaggggg cgtcagtcaca tatccctgg callcaggct gttctctggc cgtccccaac tacaccaat cttagaccaac aggaaggggg tgggtgttc ttccaac cctctctg aggttggggg gttgggccaagg gttccaacaga gggcccaagag aagcacttaa ttctacagc tcttccdag agctttagt gggctctgoc agtctggcag acactggag aactcttc taaggaccac caatcttga tgccttgcga tgcacacat caatactct gctcttccac ccaatttt cggggccaat gctccggag gcaagtgtgt gtaggtctga tggcttcca tggcttcca altccagcc ctgtaggctca tgggttccc gggctatggg ctttgggggg ccaatggctt gctggggaat ttggggggag cttggggagc cgtgggactgg caatcactt cctctttgg gcaaggccgagt acctcagac acctgtct tcaactggc tctggggag cttggggagc caatcactt cctctttgg gcaaggccgagt cgggacttga cttaactgg cctctggag gttctctctg caagatgggt ctgtagggcca ctgtctca cgtctatgoc agcalttcc tcatcagc gcttaggcgt gctcggctact ggggtggggc cagtggtgctgg gggtcagggcca ccaactctc actctctgg gggggagatag ccaactggc agtggtggggc gctgggtggc tgggtggggc ggggtggggc gctctggggg tggaggggga ggtgtgtgt gttgtgtgt gttgtgtgt ttcccaagc aggtgtgtgt tgggtgtgt tgggtgtgt ocaaggtggcag aggtgtgtgt tgggtgtgt ggtgtgtgt ggtgtgtgt ccaactcag ccaactcag cttgtgtgt tgggtgtgt gcaacggggc cggcagggca gcaagggtgt ggtgtgtgt ggtgtgtgt ggtgtgtgt ggtgtgtgt ggtgtgtgt ccaacaggt ggtgtgtgt tgggtgtgt ggtgtgtgt ggtgtgtgt ggtgtgtgt ggtgtgtgt ggtgtgtgt tccctgtcac tactgtgt gcaacagga atgtgtgt ggtgtgtgt ggtgtgtgt ggtgtgtgt ggtgtgtgt ggtgtgtgt caggtgtgt caggtgtgt ggtgtgtgt ggtgtgtgt ggtgtgtgt ggtgtgtgt ggtgtgtgt ggtgtgtgt</p>	A	Unidenti

[illegible]

619	190743	G Protein- Coupled Receptor GPCR5D	NP_061124.1	gatgacaggag gaggataaa MYKDCIESTG DYFLLCDAEG PWGIIIESLA ILGIVVTILL LLAFLFLMRK IQDCSQWNVL PTQLFLLSV LGLFLGAF AF IIELNQQTAP VRYFLFGVLF ALCFSCLLAH ASNLVKLV RG CVSFSWTTIL CIAIGCSLLQ IIAITEYVIL IMTRGMMFVN MTPCQLNVDF VVLLVYVLF MALTFVSKA TFCGPCENWK QHGRLIETV LFSIIWVWV ISMLLRGNPQ FQRQPDWDDP VVCIALVTNA WVFLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEEDVA LTSYGTPIQP QTVDPTQECF IPQAKLSPOQ DAGGV	P	Homo sapiens
620	190744	G Protein- Coupled Receptor GPCR5C	NM_018653	cgggcaggf gggaaactcc ctgaaagafg cccfggtcac agcaacccf ggaacagca ttggccalg ggaocaaac agagccf ggc ctggagagcca ggaaggccat ccaaaagcc ttggfagat ggcctggat ggcctcttic ctgtccag gggocf ggc ccaaggccat gtocaaocg gctgcagcca aggcctcaac cccgtgact acaacctg gtaocgctct ggggcgf ggc gcafcgctt ggaagocg gctggggcg gcaatgac caggttgg gtaacatca tccgtggg cagccccc ttgtgcagg acaaaagaa accggagccg ctgggggccc aggtatctt cctctgggg accctgggccc tctctgct cgtgttgc tgtgtgga agccggaact ctaacactg ggcctcgg gcttctct tggggctc ttggccatct gctctctg tctggcgct caggtctt cctcaact cctggccc agaaacacg ggcocgggg ctgggtgac ttacfggg ctctctgt gacctggta gaaagcaica tcaatacaga gtagcgaic atcaocctgg ttggggcag tggcgagg ggcocctcag gcaacagcag cgaagctgg ggcgtgggccc cccctgct cgtcgocaaac atggacttg tcatggcact catcagtc atgctgct gctggggg ccttcgggg ggcctggccc cctctgtgg cgtctacag cgctggcgta agcatgggg ctgtgtc ctacacag ccaocctgt gccaalg gtaggtggga tctgacta tacttggc aaacagcagc acaacagct cactgggaa gacocacgc tggccatgc cctggccc aatgocf ggc cctctgct cttacgct atoccgag tctccaggt gacacagtc agccagagc aaagctaccca ggggggacalg taocccccc gggcgf ggc ctatgaaac atocctgaa agcaagaaagg tcaagagcag ttctgtgaa acaaggccti ttccatggaat gaaocgggt cagctaaag ggcgtggct caataagcg ggtacalg gcaagctgct accagctgt accagccac tgaagggoc ctgaaagca agttccgt cgaaggaat tctgacalca tctccacag ggcocagoc aacaagcagg tgaagggcag tcccaactg accctgggg ctgaagacat gtaactggcc cagagccac aggcggccac accggcgaaa gacggcaga actcaggt cttaagaa cctacggt gggactgaat cagcgggtgg gaaaggaagg gggcgaat ggggagggcc ctgaagaa ggcocgggc aggggaact ctaggctct cctccctg gcaaggccagc aaactggcc ccaagctgg aaggccctc ctctgcca gttttgggt ggggtcag ggtgtccca cccctccc agtgttgg gagtggagga gcaacocca gctcctgccc aggaactc cggcggtcac actcagcca aataggttc tcgggggtgg ggcggggcag cgtcaggt tctctgga ttctggcaac ctcaagaa gtaacaggc ctcaaggcct gactgtc ctctgtagg acaagggt ccaataaat acattctgc ttatataa aaaaaaaa aaaa MGTPPEPLG ARMAIHKALV MCLGLPLFL PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTTFVLT ILVASLPFV QDTKKRSLG TQVFFLLGTL GLFCLVFCV VKPDFSTCAS RRFLGVLFA ICFSLAAHV FALNFLARKN HGRGWVFT VALLTLVEV INTEWLIT LVRSGEVGGP QGNSSAGWAV ASPCAVANMD FVMALYVNL LLLGAFLGAW PALCGRYKRW RKHG VFVLLT TATSVAIWVW VIVMYTYGNK QHNSPTWDDP TLALALAANA WAFVLFYVP EVSQVTKSSP EQSYQGDMP TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGAYD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VWD	A	Homo sapiens
621	190744	G Protein- Coupled Receptor GPCR5C	NP_061123.2	gatgacaggag gaggataaa MYKDCIESTG DYFLLCDAEG PWGIIIESLA ILGIVVTILL LLAFLFLMRK IQDCSQWNVL PTQLFLLSV LGLFLGAF AF IIELNQQTAP VRYFLFGVLF ALCFSCLLAH ASNLVKLV RG CVSFSWTTIL CIAIGCSLLQ IIAITEYVIL IMTRGMMFVN MTPCQLNVDF VVLLVYVLF MALTFVSKA TFCGPCENWK QHGRLIETV LFSIIWVWV ISMLLRGNPQ FQRQPDWDDP VVCIALVTNA WVFLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEEDVA LTSYGTPIQP QTVDPTQECF IPQAKLSPOQ DAGGV	P	Homo sapiens

622	190745	G Protein- Coupled Receptor LGR7	NM_021634	A	Homo sapiens
<p>atgacatctg gttctgtctt ctctacatc ttaattttg gaaatattt ttctatggg gggggacagg atgtcaagtg ctctctggc tatttccct gggggacat cacaaagtg ttgctcagc tcttgacatg taacgggtg gacgactg ggaatcaggc cgtatggagac aactggggag acaaaagg atggctccatg caatttgaca aatatttg cagtctac aaaaagact cccaataatc ttgtgggca gaaacacatg aatgtttgtt cgtttctgtg ccagtgcaat gttcttgcca aggtctggag ctggactgg atgaaacca ttatcagct gtctcagtg ttctcaaa tggactgca atgtcattc agtggaaat aataagaaag ctctctctg attgttcaa gaaatattat gacttcaga agcttcaga gcaaaacaaat aagatattat cactctcat ctatgttuc agtggactga atagccttac taaactgtat ctacgtcata acagaaatac ctctcagag ccgggtgttt ttgaagattt tcaagacta gaaagctga taattgaaga taatcaccat agtggaaatt cccacacac attuaagg claaatttc tttttctt agtctgtatg aatacgttc tcacoggtt acctgataa cctctctg aacacatgoc aagactatcat tggctggac ttgaaggcaa ccaatccat aattaaaggaa atttgactt tattctctg agtaatttaa ctgtttatg gattgaaggaaa acaaaatia atcactaaa tgaataatct ttgcaactc tccagaact ggaagaaatg gaaataggaa gtaataagat tgaataatct ccaactctta tttcaaggaa cttgaaggag ctgtcaaat tgaatcttc ctataacca atocagaaaa ttcaagcaaa ccaattgat tacttgca aactcaagtc tctcagctta gaaaggatg aaattcaaa tatcaacaa aggaattga gaccttat gaaatatt taaagaaat ccaattactgt gggatggcac cacatgttc cagctgtaaa ccaacactg atgggaattc atctcagag aactctgg caagcattat tcaagaaatg ttgtctggg ttgtatctg agtactcgt ttggaaaca ttgttcat ttgcatgca cttataca ggtctgagaa caagctgtat gcaatgca tcatttct ctctctgoc gactgctaa tgggaataa ttatctg atcggaggct ttgaactaa gttctggga gaatacaaa agcatggca gctggggag gaggacttc atgtcagct tgaagatct ttggcaatc tgcacaga agtatcatgt ttactgttaa cattctgac attggaaaaa tacaatgca ttgtatoc tttagatg gtagagacatg gaaatggcag aacaatgca gttctgac tcattggat tactgttt atagtggtt tcatcatt gaggcaaaag gaaatttca aaaaacta ttggcaactat ggaattatgt tccctca ttcaagaaat acagaaagta ttggagocaa gaaattca gttggcaat ttctggat taattggoc gcaattca tcatagttt ttctatgaa agcatgttt atagtgca tcaagtgcc ataaacgaa ctgaaatag gaaatagtt aaaaaagaa tgactctg caaacgttt ttctatag tattactga tgaattgct ttgaaacca ttgtttagt gaaatttct ttactgtct agglagaaat accagtgac ataaactt gggtagatg ttattctg ccaataca gttcttgaa ccaattct tatacttga ccacaagac attaaagaa atgattcat ggtttgga taactacaga caaagaaat ctatggacag caaaggctcag aaaacataig cccatatt caatgggtg gaaatggc cactgcaaga gatccact gaggtaatga agcgggaact ttacatag cctgtgaaa tgcactgat ttctcaica acgagactca attctattc atga</p>					
623	190745	G Protein- Coupled Receptor LGR7	NP_067647.1	P	Homo sapiens
<p>MTSGSVFFYI LIFGKYFSG GQDVKCSLG YFPCGNITKC LPQLHCNGV DDCGNQADED NCGDNNGWSM QFDKYFASY KMTSQYPFEA ETPECLVGSV PVQCLCQGLE LDCDETNLRA VPSVSSNVT MSLQWNLRK LPDCCFKNYH DLQKLYLQNN KITSISYAF RGLNSLTJLY LSHNRITFLK PGVFEDLHRL EWLIEDNHL SRISPPTFYG LNSLLVLM NNVLTRLPDK PLCQHMPLRH WLDLEGNHII NLNLTFISC SNLTVLVMRK NKINHLNENT FAPLQKLDL DLGSKNENL PPLFKDLKE LSQLNSYNP IQIQANQFD YLVKLKLSL EGIEISNIQ RMFRPLMNLS HIYFKFQYC GYAPHVRSC PNIDGISSLE NLLASIQRV FVWVSAVTC FGNIFVICMR PYRSENKLY AMSISLCCA DCLMGYLFV IGGFDLFRG EYNKHAQLWM ESTHCQLVGS LAILSTEVSV LLLFTLEK YICIVYFRC VRPGKCRIT VLLIWTGF IVAFTPLSNK EFFKNYYGTN GVCFFLHSED TESIGAQNS VAIFLGINLA AFIIIVFSYG SMFYSVHQSA ITATEIRNQV KKEMILAKRF FFIVFTDALC WPIFVVKFL SLQVEIPGT ITSWVVIFIL PINSALNPIL YTLTRPFKE MIHFWYNYR QRKSMDSKGQ KTYAPSEIWW EMWPLQEMPP ELMKPDIFTY PCMSLSISQS TRLNSYS</p>					

629	190774	Histamine H4 Receptor	NP_067637.2	<p>acatttatt agtttggtta tttttgtoc tttaaaaca tttttttg apatgggggt ctgtctgt tgcocacga ggaagtcagt ggcatgctt cagctcactg cagccctgac tgcctaggct ccagcaact tctatgta gctccagag tagctgggac cgaggcact tgcacacga cccacaa aattttaa atgttgctt tcttgaagt gttctgtcc tctttgtic acaaaattc atttttca tagttaatt catctcog gzaagattt atgttggtt ctttatac ttgcagtic ttacocgtt tgggtgatt catgttct agaaactta aacttttaac ttcaaacatt azaatacag tcttttaagt acatgagtg tugaatgt acataatgt tatataact tagctttac attaaagtoc aataagaa atacatgtt aatcaat aataattta aaatttgag azaataact tatanaatgc aaaaaanaa aaaaaaaa</p>	P	Homo sapiens
630	190823	Formyl Peptide Receptor 1 (FPR1)	NM_002029	<p>MPDTNSTINL SLSTRVTALF FMSLVAFAIM LGNALVILAF VVDKNLRHRS SYFFLNLAIS DFFVGVISIP LYPHITLFEW DFGKEICVFV LTDDYLLCTA SVYNVLISY DRYLSVSNV SYRTQHTGVL KIVTLMVAVV VLAFLVNGPM ILVSESWKDE GSECEPGFTS EWWYLAITSF LEFVIPVILV AYFNMMIYWS LWKRDHLSRC QSHPGLTAVS SNICGHSFRG RLSSRRSLSA STEVPASFHS ERQRRKSSLM FSSRTKMNSN TIASKMGFS QSDSVLHQR EHVELLRARR LAKSLAILLG VFVWCWAPYS LFTIVLSFYS SATGPKSVVY RIAFWLQWFN SFVNPLLYPL CHKRFQKAFI KIFCKKKQPL PSQHSRSVSS</p>	A	Homo sapiens
631	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	<p>METNSSLPIN ISGGTPAVSA GYLFLDIITY LVFAVTFVLG VLGNGLVIWV AGFRMTHTVT TISYLNLA VA DFCTSTLPF FMVRKAMGGH WPFGWFLCKF VFTVDNLF GSVFLALIA LDRCVCVLHP VWTQNHRTVS LAKKVIIGPW VMALLLTLPV IIRVTVPGK TGTVACTFN SPWTNDPKER INVA VAMLTV RGIIRFIIF SAPMSIVAVS YGLIATKHK QGLIKSSRPL RVLFSVAAAF FLCWSPYQVV ALIAVTRIRE LLQGMVKEIG IAVDVTSALA FFNSCLNPML YVFMGQDFRE RLIHLPASL ERALTEDSTQ TSDTATNSTL PSAEVELQAK</p>	P	Homo sapiens
632	190824	Formyl Peptide Receptor-like 2	NM_002030	<p>atggaacaa actcttcat tctctgaat gaacttgaagg aggtgtctoc tgaagctgct ggocacacog ttcttgatg ctctcatg ctagtcacag pagtcaact tgtctcggg gtcttggga atggggctgt gatctgggtg gctggattoc ggaagcacag</p>	A	Homo sapiens

635	190948	EMR2 Hormone Receptor	NP_038475.1	<p>agcaacttac tgcacatgca tgcctcgcgc tgcctctctc tggcccaact octctctctc gtaggcaatg atcaaaacggc</p> <p>acacaaaggcg ctgtctctca tcatgcocgg taccttgac tatctctac tggcaactt caacttgtag ctgtctggagg</p> <p>ccctgtactt ctctctact gcaaggagacc tgcaggcggt caactctca agcatcaaca gattcaltgaa gaagctcaltg</p> <p>ttctcttggg gctacggagt cccagctgig acagtgagca ttctgcagc ctccaggct caacttaig gnaacatc</p> <p>ccgtctgtgg ctccatccag aaaaagggaat tatatggggc ttcttgagc ctgtctggcc catctctc agtaattag ttctttct</p> <p>ggtagctctc tgggaattga aaaaagact ctctctctc aatagtgag tgcctacactt ccggtaacata agtagtgctgg</p> <p>catttaagc gacagctcag ctgtctatcc tgggtctgcac gtagtgctg ggcatactgc aggtggggctc ggtctggccgg</p> <p>gtcatggctt acctctcac catctcaac agctctgcaagg gtagctctcat ctctctggtag tatctgcctc tcatgcacga</p> <p>ggctcgggag caatatggga aatgtgtcaa agggatcagg aatgtgtcaa ctgagctctga gtagcacaca ctctcagca</p> <p>gtgtcaaggc tgcacactc aaacccagca cgtgttaacta gnaaaatct ctgaataaga tcttccctt tggcggggcg</p> <p>aaaaatgaa caactttga gccatcaga ggggaagaa aagacttgt tctgtgtgt tcaagaaat caccatgca gcaatagaa</p> <p>ggatgtatg gtagggctgc tggcatca atctctgag aaacggaa tctctatgc cctgcagat gctctcaaa</p> <p>ctctcagcat atggacggcc agctgtggcc catcttggg tcatcttga gcaaatat tatgaagca tagaagttga agactctt</p> <p>cacagctct cctctctaca aagactctc caaatctaa aatgaagcag gcaaaacaa ctaagagagac ttatataccg</p> <p>acaaatcgt aagggatag aatgtaca ccagctatg gattctaa ttnttgt ttgtttgt tgtctctag ttctacgggt</p> <p>ttgattatt agtcatgta aaaaattga ttactcac atagatcag agagacagc ctctgcctt catggagct ttaggggaaa</p> <p>atgaagtggc tcttgagct agatgtact cagaagccga aattctaga aatcaggtt ctactctag gcaatttag tataaactat</p> <p>ttataaca ctgtctct tcatctac</p>	P	Homo sapiens
636	190955	Leukotriene B4 Receptor BLT1	NM_000752	<p>gocattctt cacatccgt ggggtcagga agccctctt gaactctgac ttacgtctt gctgcgggtt ctgcocattt ttctatct</p> <p>ctctgacagc tggagggtca tctctgctt ggcctttct caatgacac aagtgggggc tctggaaagg ttaggagacc</p> <p>tcatggcca ccatatact ttgcacttt cctgaagagt gtaggttga agggaaagcag gnaaggccat ggtcagatg</p> <p>aagggaagac tttaagt ttnttttt ttnttgaaat gtaggtctgc tctgtatc aggcctggagt gcagtgctgc gactcagct</p> <p>cactgcagcc tcatctctt ggggtcat gattctctg cctcagctc ccaagtatgt gactatag gcaatagca gcaatgcca</p>	A	Homo sapiens

ctacacccag ctaactttg taatttagi agagacccggg ttacacacg ttggccacagg ttggctacaa ctggctaacat caagtgatct
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 ctgaggtgt aa

637	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	MNTSSAAPP SLGVEFISLL AILLSVALA VGLPGNSFVV WSILKRMQKR SVTALMVLNL ALADLAVLLT APFLHFLAQ GTWSFGLAGC RLCHYVCGVS MYASVLITTA MSLDRSLA VA RPFVSQKLRT KAMARRVLAG IWVLSFLLAT PVLAYRTVTP WKTNMSLCFP RYPSEGHRAF HLIFEAVTGF LLPFLAVVAS YSDIGRRLLQA RRFRSRRRTG RL VVLILTF AAFWLPYHV V NLAEAGRALA GQAAGLGLVG KRLSLARNVL IALAFSSV NPVLYACAG GLLRSAGVGF VAKLLEGTGS EASSTRRGS LGQTARSGPA ALEPGPSESL TASSPLKNE LN	P	Homo sapiens
638	191039	Trace Amine	AF380185	atgagctct ttggcccaa tataatatt atttctgtg ttgaaacaa ctggctcaaat gattgtccgtg cttccctga cagttaaatg	A	Homo

gocggaaglc atttggagc gacacccgat tttaacct ttgtctggt tttaaggaga atccaaagt caaaacaccaa ggaacttga
gaacttga acttggcgtt taataaacc ggttaatta ttccacaa gtttgttt gaaaaagagc ttcaatag tataacct
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MVVYL VSSFR KLQTTNFI VNGCAADLSV CALWMPQEA V LGLLPTGSAE
PPADWDGAG SYRLRGGLL GLGLTVSLLS HCLVALNRYL LITRAPATYQ
ALYQRRHTAG MLALSWAL GLVLLPPWA PRPGAAPPRI HYPALLAA
LLAQ TALLH CYLGIVRRVR VSVKRVSVLN FHLLHQLPGC AAAAAFPGA
QHAPGPGGAA HPAQAQPLPP ALHPRRAQRR LSGLSVLLC CVFLLATQPL
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LPGVGDA AAA AVAATAVP AV SQAQLGTRAA GQHW
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tcatattt ttcttgc aagttcca gaaatctt gaaagtag ctgaatggc caaatctc aacatctc tccagga

641	191132	G Protein- Coupled Receptor 88 (GPR88)	NP_071332.1		P	Homo sapiens
			MTNSSSTSTS STIGGSLLLL CEEESWAGR RIPVSLLYSG LAIGGTLANG MVYLVSSFR KIQITSNAFI VNGCAADLSV CALWMPQEAVALGLLPTGSAE PPADWDGAGG SYRLLRGGLL GLGLTVSLLS HCLVALNRYL LITRAPATYQ ALYQRRHTAG MLALSVALAL GLVLLLPWA PRPGAAPPRI HYPALLAAAA LLAQTALLLH CYLGIVRRVR VSVKRVSVLN FHLLHQLPGC AAAAAAFPGA QHAPGPGGAA HPAQAQPLPP ALHPRRAQRR LSGLSVLLLC CVFLLATQPL VWVSLASGFS LPVPWGVHAA SWLLCCALSA LNPLLTYWRN EEFRRSVRSV LPGVGDAAAA AVAATAVPAV SQAQLGTRAA GQHW			
642	191168	P2Y12 Platelet ADP Receptor	NM_022788	A	Homo sapiens	
			ggcgcgaata actactacti actggaataca ttaaaacct ccagaalcaa cagttatcag gtaaccaaca agaaalgcaa ggcgtgcaca acctcacctc tgcgtcgtggg aacaccagtc tngacacag agatatacaa atcacccagg tccctctccc			

643	191168	P2Y ₁₂ Platelet ADP Receptor	NP_073625.1	<p>ataggagaaaa agaaacaggat gggtgtgacc caaatgaaag gactccaatg taacaaat aactaaggaa atatttcaat ctcttggc tcaagaactg taagaacaa ggcctaagta aaaaataata ctacgaagaa agcaactaag taataaataa tgaactaaaa gaacagaag atacaaga caattttat tuaccttcc agtaagaata gctacttaa aatatagaaa actaatciaa actgtagcig tattagcagc aaacaaacg ac</p> <p>MQAVDNLTSA PGNTSLCTRD YKIQVLFPL LYTVLFFVGL ITNGLAMRUF FQIRSKSNFI IFKNTVISD LLMULTFPK ILSDAKLGTG PLRIFVCQVT SVIFYFMVI SISFLGLTI DRQKTRPF KTSNPKNLG AKILSVVWA FMFLSLPNM ILTNRQPRDK NVKKCSFLKS EFGLVWHEIV NYICQVIFWI NFLIVVCYT LITKELYRSY VTRGVGKVP RKKVNVKVFIIA VFFICFV PFHFARIPYT LSQTRDVFDC TAENTLFYVK ESTLWLSLN ACLDPFIYFF LOKSFRNSLI SMLKCPNSAT SLSQDNRRKKE QDGDGDPNEET PM</p>	P	Homo sapiens
644	191193	Trace Amine Receptor 3 (TA3)	AF380189	<p>atgggaata atttccca agcagaggct gggagcgtgt gttacaagaa cgtgaacgaa tctgcattt aaactctcta ctgcagggt cctgatacta tctctacgc cgtcttggc ttggggcig ttggggcagc gtttgggaac ttactggcct tgaigtctat ccttcacttc aaacaaacgc acacacacac aaactttcgt atggcgtgc ttgctgtgac gggcgtgac ggggagcga ctggtgagcc cttcagcaca gttgagcgtg ttggagcgtg ttggtaattt ggggagcgtt actgtaaat ccataatgt ttgacacat ccttctgtt tgccttcta ttcaattt gctgtatctc tgtgtataga tacaatgctg ttactgtatc tctgacctat ccaaccaagt ttactgtgic agtttcaagg atagcattg ttcttctg gttctttct gtcacataca gcttttcat cttttacag ggaagcacaag aagaaggaat tgaaggaatta gtagttctc taacctgtt aggaagcgtc caggtctcac tgaatcaaaa cgggttccia cttgtttc ttctattt tataccaat gtcgccatgg tgtttatata cagtaagata ttgtgtgg ccagc-catca ggcctaggaag atagaaagta cagccaagca agctcagttc tctcaga gttacaagaa aagagtagca aaaaagtaga gaaaggcgtc caaaacttg ggaattgcta tggcagcatt tctgtctt tggctacat acctgttga gtcagtgat gactgtata tgaattttt aaactctct tattgttat agattttat ttgtgtgt tattaaat cagctatgaa cccctgat taltgttct ttaccaatg gtttgggaag gcaataaac ttattgaag cggcaaggc taagagcgtg attgtcaac aactaatia ttctgaag aagttagagac agattaa LLVMIALHF KQLHTPTNFI IASLACADFL VGVTVMPFST VRSVESCWYF MVNNFSQAEA VELCYKNVNE SCIKTPSPG PRSILYAVLG FGAVLAAGN LLVMIALHF KQLHTPTNFI IASLACADFL VGVTVMPFST VRSVESCWYF GDSYCKFHTC FDTSCFASL FHLCCISVDR YIAVTDPLTY PTKFTVSVSG ICIVLSWFFS VTYSFSIFYT GANEEGIEEL VVALTCVGGC QAPLNQNWVL LCFLLFFPN VAMVFTYSKI FLVAKHQARK IESTASQAQS SSESYSKERRVA KRERKAAKTL GIAMAAFLVS WLPYLVDVI DAYMNFITPP YVVEILVWCV YVNSAMNPLI YAFFYQWFGK AIKLIVSGKV LRITDSSITNL FSEEVETD</p>	A	Homo sapiens
645	191193	Trace Amine Receptor 3 (TA3)	AAK71240.1	<p>atgaatagc cactagacta tttagcaaat gctttcat tccc-gatta tgcagcgtct ttggaaat gcaactgata aaacatocca ctcaagagc actacctccc tgtatttat ggcatact tctcgtggg atttccagc aatgcaatg tgaatocac ttacatttc aaaatgaagc ctgggaagc cagcaacac atattgtcga acctggcgtc cagaatcgt cgtatctga ccagctccc cttctgatt cactactatg ccagtgggca aaactggaic ttggagat ttalgtgtaa gttatccgc ttacgttcc atttcaact gtatagcagc atctcttccc tcaactgtt cagcatctc cgtactcgtg tgaatcata ccaatgagc tgcatttoca ttacaaac tgaatgta gttttagctt gttctgtgtt gttgatact tcaatgttgg ctgtcattcc gttgattcc ttgatacat caaccaacag gaaccaaga tgaactgic tgaactcac cagttcggat gaactcaata ctataagag ttacaacgtg atttgaact caactattt ctgctcccc ttgggtalag tgaacttg ctataacag attatocaca tggactgcaa actgacagct gacttaagca gaagagcaga aggcataoca ttctgtact ccttgcaat taccgtgt tttaacct ccaatctg aggtcattc ggtatgaac tgcctgctt tcaatcgtt gttcaatga gaatcagatc calgaagctt acatgttct tagtaocatta gctgctctga acaacttgg</p>	P	Homo sapiens
646	191196	G Protein- Coupled Receptor GPR80	AF411109	<p>atgaatagc cactagacta tttagcaaat gctttcat tccc-gatta tgcagcgtct ttggaaat gcaactgata aaacatocca ctcaagagc actacctccc tgtatttat ggcatact tctcgtggg atttccagc aatgcaatg tgaatocac ttacatttc aaaatgaagc ctgggaagc cagcaacac atattgtcga acctggcgtc cagaatcgt cgtatctga ccagctccc cttctgatt cactactatg ccagtgggca aaactggaic ttggagat ttalgtgtaa gttatccgc ttacgttcc atttcaact gtatagcagc atctcttccc tcaactgtt cagcatctc cgtactcgtg tgaatcata ccaatgagc tgcatttoca ttacaaac tgaatgta gttttagctt gttctgtgtt gttgatact tcaatgttgg ctgtcattcc gttgattcc ttgatacat caaccaacag gaaccaaga tgaactgic tgaactcac cagttcggat gaactcaata ctataagag ttacaacgtg atttgaact caactattt ctgctcccc ttgggtalag tgaacttg ctataacag attatocaca tggactgcaa actgacagct gacttaagca gaagagcaga aggcataoca ttctgtact ccttgcaat taccgtgt tttaacct ccaatctg aggtcattc ggtatgaac tgcctgctt tcaatcgtt gttcaatga gaatcagatc calgaagctt acatgttct tagtaocatta gctgctctga acaacttgg</p>	A	Homo sapiens

Homo sapiens

P

taactgttga ctatgttgg tggcagcga caactttcag caggctgtct gctcaacagt gagatgcaaa gtaagcggga
accttggca agcaaaagaa atagttaact caacaacacc tga

MNEPLDYLAN ASDFPDYAAA FGNCTDENIP LKMHYLPVIY GIHVLGFGP
NAVISTYIF KMRPWKSSIT IMLNLACTIDL LYL TSLPFLI HYYASGENWI

FGDFMCKFER FSFHNLYSS ILFLTCSIF RYCVIHPMS CFSHKTRCA VVACAVVWII
SLVAVPMTF LITSTNRTR SACLDLTSSD ELNTIKWYNL ILTATTCFLP LVIVLCYTT
IHHLTHGLQ TDSCLKQKAR RL TILLALF YVCFLPHIL RVIRIESRL SISCSENQI

HEAYIVSGPL AALNTFGNLL LYVVVSDNFQ QAVCSTVRCK VSGNLEQAKK ISYSNNP

Homo sapiens

A

tccctggccc ttaataaag acttaattc ttaagctc tgaattc tctgtgaaa caggggcgggt aataaccaca taacaggtc
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agcaaccgtca gcaccggagcg ctgctgtcc gtcctgtggc ccacttggtga tggctggcgc cggccacagac acctgtgagc
ggctgtgtgt gtcctgtctt gggccctgtc cctactgtcg agcatctgg aaagggaagt ctggggcttc ttatgtactc
tgggtgggtt cagacatttg atttaccac tgcagcggtgg ctgaattt tattcaggt tctctgtggg tccagtctgg cctgtctgtt

caggatctc tggctoca ggggtctgoc actgaccagg ctgtaccga ccatctgt caccatgtcgt ggtgtctoc
tctggggctt gccctggc attcaggtt tccatatt atggatctgg aaggtatctg agtcuatt tgtcatatt catcagttt
cagttgct gtcactctt aacagcagtg ccaccccat catctactc ttgggtggct ctthaggaa gcagtgggcgg ctgcagcagc

cgatctcaaa gtcggctc cagagggctc tgcagagcat tgcctggagg gattcagag agggatgctt ccgctcagggc
acccggaga tgcagaga cagctgggg tagagatgga cagctctac tttacatga tatgtggc ttggagggc
aacttgcc ctgtctgtt gattctga actttcag tctgtatt aaaaagtt aagagatcct tggagggtt aagtgaaga

Homo sapiens

P

MDPTTPAWGT ESTTVNGNDQ ALLLCGKET LIPVFLILFI AL VGLVGNFG
VL WLLGFRMR RNAFSVYVLS LAGADFLC FQINCLVYL SNFFCSISIN

FPSFFTVM T CAYLAGLSML STVSTERCIS VLWPIWYRCR RPRHLSAVVC
VLL WALSL L SILEGKFCGF LFSDDSGWC QTDFDTAAW LIFLFMVLCG
SSLALLVRIL CGSRGLPLTR LYL TILLTVL VFLLCGLPFG IQWFLILWV KDSDVLFCHI

HPVS VVLSL NSSANPIYF FVGSFRKQWR LQQPILKLAL QRALQDIAEV
DHSEGCFRQG TPMSRSSLY

Homo sapiens

A

tcatatct gacatctt ttcgagcaa agtttagat acactgtgg catcttcc tgcatagtt gcaaatgctt gtcctgaag
atcttgct ttctgcagg ttgcagactt gccactagag ctgggaatgg tcatgtgac atggccgtc atggagatca gtagagcagg
actcaggcgca atgctgtca cactatggga agataactg tagatcat tgaagagggc agactgttg taaactct gcttacaat

ataaactag catgtgggga tgaatgtgca atacaggtat ccatagttag atataat gataataic tccacagctg gttcatatt
gccaaatgt gtagcataga tagggtagaa tggatccaa gctatgaat aatgagat gccaaatga atgaattgg
cttactga attcatat tgccttga aagcaaat gaaagcaatg aagggccagga tggcaatga gccacagatg

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ggcactcag aaatttgt aattggat caaagctga gggtagcaaa attttcaga acttctgcaa atgtcagggag

atgcagaag taagctcac tccaaacatt gctgtccgg tttaatgtt gaaatgtgtt ggttctcga tgaanaagct cgtgtctggca

647 191196 G Protein-Coupled Receptor GPR80 CAC51133.1

648 191218 MrpX2 G Protein-Coupled Receptor AY042214

649 191218 MrpX2 G Protein-Coupled Receptor AAK91805.1

650 191222 G Protein-Coupled Receptor Ls191222 LG94359

651	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199 719	P	Homo sapiens
<p>aaatgagaga aatgacagag aagagacaca tagacagacac taaatcccc ggaagatattc acaacagagtg tgttcaaggti tctgttaaat attatgacca caaacagagac aaataatgati cccagtagagg agaaagaaacag gtagtagagtg gccaagagagti caatocagti gtagatattcc acttcttiti caaagacacat agtctctoca acagaggagcccc agttagagttti gttgttgcat aaaaagagcagti gagacataic t</p> <p>QTLAMHHSIE MINNSTLPG VKLGYEYDIT CTEVTVAMAA TLRFLSKFNC SRETVEFKCD YSSVMPRVKA VIGSGYSEIT MAVSRMLNLQ LMPQVGYEST AEILSDKIRF PSFLRTVPSD FHQKAMAHLL IQKSGWNWIG IITDDDDYGR LALNTFIUQA EANNVCIATFK EVLPALFSDN TIEVRINRIL KKIILEAQVN VIVVFLRQFH VFDFLNFKAIE MNINKMWIAS DNWSTATKIT TIPNVKKIGK VVGFAPRRGN ISSFHSFLQN LHLLPSDSHK LLHEYAMHLS ACAYVKDITDL RLHSIQLAV FALGYAIRD CQARDCQNP AFQPWELLGV LKNVTFIDGW NSFHDAHGD LNTGYDVVLW KEINGHMTVT KMAEYDLQND VFIPDQETK NEFRNLKQIQ SKCSKECSPG QMKKTTRSQH ICCEYEQNCP ENHYTNQITDM PHCLLNNKT HWPVRSTMC FEKEVEYNLW NDSLAILLI LSLGIIFVL VVGIIITRNL NTPVKSSGG LRVCYVILL HFLNFASSTF FIGERQDFTC KTRQTMFGVS FTLCISCLT KSLKILLAFS FDPKLQKFLK CLYRPILJIF TCTGIQVVIC TLWLIFAAPT VEVNVSIPRV IILECEEGSI LAFGTMLGYI AILAFICFIF AFKGYENYN EAKFITFGML IYFIAWITFI PYATTFGKY VPAVEIIVL ISNYGIL YCT FIPKCYVIC KQEINTKSAF LKMIYSYSSH SVSSI</p>					
652	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	NM_032571	A	Homo sapiens
<p>tttcttgagc taggaagaagti ggttggctta cggacagata gagaagcttcc agggctggct ggcggggagat aaccgacca cagaatagca ggaagacatg cttctocag gcccctgcti ttctctgagc cttttggag cgttgactca gaaagacaaa acttccgttg ctaagtgccc cccaatgct tcttgctga ataacactca ctgcacctgc aacatggat atactctgg atctggggcag aaactatca catttccctt ggagagacatg aacgacatua atgaatgtaac accaaccat agtggattat ggagattaa cgtctgtgtgt tacaatgtog aagggaaagtti ctactgtcaa tgggtccag gatataagct gcaatctggg aalgaaacat tcaatgtaac caatgaaac acctgtcagg acataccctc ctcaagata aco-gaggagca ggaagagcti gcaaaagat ggaggacaaat ttgagtcaat tctaccaat cagacttat ggaagacaga agggagagaca gaaatctcat ccacagctac cactatctc cgggagtggtg aaatggaaagt tctagaaact gcttgaaag atccagaaaca aaaaagctcgt aaaaatccaa acgatagtgt agctatgaa actcaagcga ttacagcaa tggctctgaa gaaagaaaga catcaacti gaacgttcaa atgaactcaa ggagacatccg ttgcagtgac atcaatcagg gaaagacaca aggttccagt gccaatgct ttactcata ttctctt ggaaacatca taaatgcaac ttttttgaa gagaagata agaaagata agtggatctg aaactctcagg ttgtgagtg gtcatttgga cccaagaggga acgtgtctct ctaccaagcti gtagacgtga ctttccagca cgtgaaagtg acccccagta ccaaaaggti cttctgtgtc tactggaaaga gcacagggcga ggagcagccag tgggtccagggg atgggtctgt cctgtatcac gtgaaacaga gtacacacat gttgaaatgc agtacactgt ccaagcttgc tggcttgag gctccgaca gccaagggaga ggaatccctgt cgtactgtca tcaactactg ggggctgagc gttctctctg tggctctt cctgtgggccc ctactttt tctgtgtgaa agccatccag aacacccagca cctcaatgca tctgcaagctc tggctctgccc tctctctgccc ccaactctc ggaatgagtg aaatgaaacc aaggtgtgtgt gtctccatcat cgtccgtgtgt ttgcactatc tctactggcc cgtctccac ttgagctgccc ggaaggggtgt gcaactcttc ctactgtcag ggaaactgac agtgggtgac tactcaagca tcaatgacti calgaagtg atcatgtcc cagtccgcta tgggtgtcc gctgtgtgtg tggccatttc tgcagcttccc tggctccac ttatggaaac tggctgactga tgcgtgtgtcc acctggtaaca gggaatcag tggagttccc ttggccagti cgtgtccat tttctgtgca attagattgt gttatctgt gttttttgga ttggaagaa aaaactttcc tccctcaata gtagagtgac aaacatccag aacacagaga tgc-tgggttt caaagcaaca gttcagcti tcaactgggg ctgacatagg gttctgtgggt tgcatacaggt gggttccagcti gcccacatcc tttcaacatc</p>					

653	193511	EGF-Like Module- Containing Mucin-Like Receptor EMR3	NP_115960.1	<p>atcaacagcc tccaaagcct ctacatctc ttggtactt gctctctcag ccagcaggic cagaacaat atcaaaagtg</p> <p>gttagagag atcgaaaat caaaatc tga gtcgagaca tacacactt ccagcagat ggtctctgac tcaaaacca</p> <p>gtgagggga tgtttcca ggacaatga agagaaaata taaacaag aatattcac tccatagga aatcataic catggaic</p> <p>ttggcata tgaagatga agtaagga aaggaatic attaaacata tcatcttgg agaggaagta atcaacctt acttccaag</p> <p>cgtgtgtc tccaatag gctctcaaca aatgttgtt aattgcatt tctctcaaa aaaaaa</p> <p>MQGPLLPGL CFLLSLFAGV TQTKTSCAK CPNASCNN THCTCNHGYT P</p> <p>SCSGQKLFTF PLETENDINE CTPPVSVCY FNAVCYNVEG SFYCQCVPGY sapiens</p> <p>RLHSGNEQFS NSNENTCQDT TSSKTTEGRK ELQKIVDKFE SLITNQILWR</p> <p>TEGRQEIST ATTILRDVES KVLETALDQP EQKVLKQND SVAIETQAIT DNCSEERKTF</p> <p>NLNVQMNSMD IRCSDUQGD TQPSAIAFI SYSSLGNIIN ATTFEEMDKK</p> <p>DQVYLSQVV SAAIGPKRNV SLKSVLTF QHVKMTPTSK KVFCVYWKST</p> <p>GQGSQWSRDG CFLIHVNKSH TMCNCSHLS FAVLMALTSQ EEDPVLTVT</p> <p>YVGLSVSLLC LLLAALTFLL CKAIQNTSTS LHLQLSLCLF LAHLLFLVGI</p> <p>DRTEPKVLCS IAGALHYLY LAFTWMLLE GVHLFLTARN LTVVNYSSIN</p> <p>RLMKWMFPV GYGVPATVA ISAASWPHLY GTADRCWLHL DQGFMSWFLG</p> <p>PVCAIFSANL VLFILVFWIL KRKLSLNSV VSTIQNTRML AFKATAQLFI</p> <p>LGCTWCLGLL QVGRAAQVMA YLFTIINSLO GFTEL VYCL LSQQVQKQYQ</p> <p>KWFREIVKSK SESETYTLSS KMGPDSPSE GDVFPQVKR KY</p> <p>KHAYICLAAI WAYASFWTIT PLVGLGDYVP EPFGTSCILD WMLAQASVGG P</p> <p>QVFINILFT CLILPTAVIV FSYVKIAKV KSSSKPEVAHF DSRHSHVL EMKLTKVAML</p> <p>ICAGFLJAWI PYAVVSVWSA FGRPDSPIQ LSVVPTLLAK SAAMYNPIY</p> <p>QVIDYKFACC QTGGLKATKK KSLGFRLHT VTTVRKSSAV LEIHEEV</p> <p>agcgaacct cggggcgccg gggagccag ttggagcgcg gggagcgccg agcagcgctg gggatcgtgt ggtggggcg</p> <p>gaaaaagcca gggccgcacg ccggagggcg tccggcccg gaggagatgg tgcacagagg gcggcggggg tgcggagaga</p> <p>caaggcgagg gggggggggc cggggcgggcg gcaaggggcc ggaagggggg ccagagcgcg gggccagccc</p> <p>aaggcccgga ccggggcggg gggcggttga ggcgggttga gaggcgggga gattatggcg agggcgccg</p> <p>cgtggcgggg cctgggggaa cgttccgccc ccatactct gctctctc cttcttgt tccccctag ccaggagagg</p> <p>ctggggggcg gttgggacca gggcttggag ccaggcttgg cggggccag gcttgggggt caggggagct atcttggg</p> <p>cttagctctt tttccggagt ctccgggggt ccggggaggat gggggggccg gcttgggggt caggggagct atcttggg</p> <p>ggctccgagg gaggaggcaa agccggcgaa ataggcgagg gcccccttga cagccggaa agggagctgg gattgaaac</p> <p>ggcgccagc cattggcgag ccggcgagg gaggagagac agggagagac gcttgggtta tactggcgcc caggaggttc</p> <p>ctcttggggg ggggagagac ctgggagag aggttggctt tcaocagggg cttcttctt aggggttccc ggtctggggg</p> <p>acagctcgcc cctccctca gacttttga ttgggacca cgttcccaag cagggttcc tccagcgcaa cgttgggaca</p> <p>ggctcccgca aaaaagttgg caocggcgcg tcttgggggg aattatggcg aacaggagag aagggttcaag gcttggagag</p> <p>caaggatccc caagcgagg aagctcttgg catcaggttc agcaaccccg ggttcttggga cagctcccca ggcggcgccc</p> <p>caaggacacg cagctcgagg gacttcttgg tcttccgg tcccgcgagc ccggggcgcc ggttcccgcc gactccggc</p> <p>aagcttggga gcaaggagaa taactcgcc gaaocgggca cgttcttggc ggcggcgcaa ccggccacccg cagtttccg</p> <p>ccgttccgga ccaagcgag aggttgggag ataggagagc agggcacccg gttcttggcg tgggttggca ggaacccgg</p> <p>agttacacaa ccaagcttgg gtttcttgg cttgggggac tcaaggagac ccggcttggc gaggcttga gcatcgacc</p> <p>ggcgcgagg ccggggcgcc agtttcttgg cttgggggac tcaaggagac ccggcttggc gaggcttga gcatcgacc</p>	Homo sapiens
654	193516	G Protein- Coupled Receptor d1402H5.1	CAC21687.1	<p>KHAYICLAAI WAYASFWTIT PLVGLGDYVP EPFGTSCILD WMLAQASVGG P</p> <p>QVFINILFT CLILPTAVIV FSYVKIAKV KSSSKPEVAHF DSRHSHVL EMKLTKVAML</p> <p>ICAGFLJAWI PYAVVSVWSA FGRPDSPIQ LSVVPTLLAK SAAMYNPIY</p> <p>QVIDYKFACC QTGGLKATKK KSLGFRLHT VTTVRKSSAV LEIHEEV</p> <p>agcgaacct cggggcgccg gggagccag ttggagcgcg gggagcgccg agcagcgctg gggatcgtgt ggtggggcg</p> <p>gaaaaagcca gggccgcacg ccggagggcg tccggcccg gaggagatgg tgcacagagg gcggcggggg tgcggagaga</p> <p>caaggcgagg gggggggggc cggggcgggcg gcaaggggcc ggaagggggg ccagagcgcg gggccagccc</p> <p>aaggcccgga ccggggcggg gggcggttga ggcgggttga gaggcgggga gattatggcg agggcgccg</p> <p>cgtggcgggg cctgggggaa cgttccgccc ccatactct gctctctc cttcttgt tccccctag ccaggagagg</p> <p>ctggggggcg gttgggacca gggcttggag ccaggcttgg cggggccag gcttgggggt caggggagct atcttggg</p> <p>cttagctctt tttccggagt ctccgggggt ccggggaggat gggggggccg gcttgggggt caggggagct atcttggg</p> <p>ggctccgagg gaggaggcaa agccggcgaa ataggcgagg gcccccttga cagccggaa agggagctgg gattgaaac</p> <p>ggcgccagc cattggcgag ccggcgagg gaggagagac agggagagac gcttgggtta tactggcgcc caggaggttc</p> <p>ctcttggggg ggggagagac ctgggagag aggttggctt tcaocagggg cttcttctt aggggttccc ggtctggggg</p> <p>acagctcgcc cctccctca gacttttga ttgggacca cgttcccaag cagggttcc tccagcgcaa cgttgggaca</p> <p>ggctcccgca aaaaagttgg caocggcgcg tcttgggggg aattatggcg aacaggagag aagggttcaag gcttggagag</p> <p>caaggatccc caagcgagg aagctcttgg catcaggttc agcaaccccg ggttcttggga cagctcccca ggcggcgccc</p> <p>caaggacacg cagctcgagg gacttcttgg tcttccgg tcccgcgagc ccggggcgcc ggttcccgcc gactccggc</p> <p>aagcttggga gcaaggagaa taactcgcc gaaocgggca cgttcttggc ggcggcgcaa ccggccacccg cagtttccg</p> <p>ccgttccgga ccaagcgag aggttgggag ataggagagc agggcacccg gttcttggcg tgggttggca ggaacccgg</p> <p>agttacacaa ccaagcttgg gtttcttgg cttgggggac tcaaggagac ccggcttggc gaggcttga gcatcgacc</p> <p>ggcgcgagg ccggggcgcc agtttcttgg cttgggggac tcaaggagac ccggcttggc gaggcttga gcatcgacc</p>	Homo sapiens
655	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NM_001407	<p>KHAYICLAAI WAYASFWTIT PLVGLGDYVP EPFGTSCILD WMLAQASVGG P</p> <p>QVFINILFT CLILPTAVIV FSYVKIAKV KSSSKPEVAHF DSRHSHVL EMKLTKVAML</p> <p>ICAGFLJAWI PYAVVSVWSA FGRPDSPIQ LSVVPTLLAK SAAMYNPIY</p> <p>QVIDYKFACC QTGGLKATKK KSLGFRLHT VTTVRKSSAV LEIHEEV</p> <p>agcgaacct cggggcgccg gggagccag ttggagcgcg gggagcgccg agcagcgctg gggatcgtgt ggtggggcg</p> <p>gaaaaagcca gggccgcacg ccggagggcg tccggcccg gaggagatgg tgcacagagg gcggcggggg tgcggagaga</p> <p>caaggcgagg gggggggggc cggggcgggcg gcaaggggcc ggaagggggg ccagagcgcg gggccagccc</p> <p>aaggcccgga ccggggcggg gggcggttga ggcgggttga gaggcgggga gattatggcg agggcgccg</p> <p>cgtggcgggg cctgggggaa cgttccgccc ccatactct gctctctc cttcttgt tccccctag ccaggagagg</p> <p>ctggggggcg gttgggacca gggcttggag ccaggcttgg cggggccag gcttgggggt caggggagct atcttggg</p> <p>cttagctctt tttccggagt ctccgggggt ccggggaggat gggggggccg gcttgggggt caggggagct atcttggg</p> <p>ggctccgagg gaggaggcaa agccggcgaa ataggcgagg gcccccttga cagccggaa agggagctgg gattgaaac</p> <p>ggcgccagc cattggcgag ccggcgagg gaggagagac agggagagac gcttgggtta tactggcgcc caggaggttc</p> <p>ctcttggggg ggggagagac ctgggagag aggttggctt tcaocagggg cttcttctt aggggttccc ggtctggggg</p> <p>acagctcgcc cctccctca gacttttga ttgggacca cgttcccaag cagggttcc tccagcgcaa cgttgggaca</p> <p>ggctcccgca aaaaagttgg caocggcgcg tcttgggggg aattatggcg aacaggagag aagggttcaag gcttggagag</p> <p>caaggatccc caagcgagg aagctcttgg catcaggttc agcaaccccg ggttcttggga cagctcccca ggcggcgccc</p> <p>caaggacacg cagctcgagg gacttcttgg tcttccgg tcccgcgagc ccggggcgcc ggttcccgcc gactccggc</p> <p>aagcttggga gcaaggagaa taactcgcc gaaocgggca cgttcttggc ggcggcgcaa ccggccacccg cagtttccg</p> <p>ccgttccgga ccaagcgag aggttgggag ataggagagc agggcacccg gttcttggcg tgggttggca ggaacccgg</p> <p>agttacacaa ccaagcttgg gtttcttgg cttgggggac tcaaggagac ccggcttggc gaggcttga gcatcgacc</p> <p>ggcgcgagg ccggggcgcc agtttcttgg cttgggggac tcaaggagac ccggcttggc gaggcttga gcatcgacc</p>	Homo sapiens

[illegible]

[illegible]

gcaaaaggag cagaacaag ggaattcaag accaagaag taggtgocac tgcctctat gttacagga tccctcggg
ccctaggcac ctggcgca ggaagtact ccgtccact cctcttatt tccctaaaa agggaaaaat gactgtiacc
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aggtttcta gttgcccctc tctgggttc cctcttcca gccaggggc cctcttct gtcgtgttaa atgttccgt gaagccgcgc
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MMAARRPPWRG LGERSTPILL LLLLSLFLPS QEELGGGGHQ GWDPGLAATT
GPAHIGGGA LALCPSSGV REDGGPGLGV REPIFVGLRG RRQSARNSRG
PPEQPNEELG IEHGVQPLGS RERETGQPG SVL YWRPEVS SCRTGPLQR
GSLSPGALSS GVPGGNSSP LPSEFLIRHH GPKPVSSQRN AGTGRKRVG
TARCCGELWA TGSKGQGERA TTSGAERTAP RRNCLPGASG SGPELDSAPR
TARTAPSGS APRESRTAPE PAPKMRMRG LFRCRFLPQR PGPRPPGLPA
RPEARVTS NRARFRAAN RHPQPQYNY QTLVPENEA GTAVLRVVAQ
DPDAGEAGRL VYSLAALMNS RSELEFSDP QSGLIRTAAL LDRESMERHY
LRVTAQDHGS PRLSATTMVA VTVADRNDHS PVFEQAQYRE TLRENVEEGY
PILQLRATDG DAPPNANLRY RFVGPPAARA AAAAFEIDP RSGLISTSGR
VDREHMESEY LVVEASDQGG EPGRSATVR VHITVLDEND NAOFESEKRY
VAQVREDVRP HTVVLRVAT DRDKDANGLV HYNISGNSR GHFAIDSLTG
EIQVVAPLDF EAEREYALRI RAQDAGRPL SNNTGLASIQ VVDINDHIPI FVSTPFQVSV
LENAPLGHSV IHQAVDADH GENARLEYSL TGVAPDTPFV INSATGWVSV
SGPLDRESVE HYFFGVEARD HGSPPLSASA SVTVTVLDVN DNRPEFTMKE
YHLRLNEDAA VGTSVSVSTA VDRDANSALS YQITGGNTRN RFAISTQGGV
GLVTLALPLD YKQERYFKLV LTASDRALHD HCYVHINTD ANTHRPVFQS
AHYSVSVNED RPMGSTTVI SASDDDVGEN ARITYLLEDN LPQFRIDADS
GAILTQAPLD YEDQVITYLA ITARDNGIPQ KADTTYVEVM VNDVNDNAPQ
FVASHYTGLV SEDAPPFTSV LQISATDRDA HANGRVQYTF QNGEDGDGDF
TIEPTSGIVR TVRRLDREAV SVYELTAYAV DRGVPLRTP VSIQVMVQDV
NDNAPVFAE EFEVRVKENS IVGSVVAQIT AVDPDEGPN HIMYQIVEGN
IPELFQMDIF SGELTALIDL DYEARQEYVI VVQATSAPLV SRATVHVRLV
DQNDNSPVLN NFQILFNYYV SNRSDTFPSG IGRIPAYDP DVSDHLFYSF
ERGNELQLLV VNQTSSELRL SRKLDNNRPL VASMLVTVTD GLHSVTAQC
LRVVIITEEL LANSITVRLE NMWQERFLSP LLGRFLEGVA AVLATPAEDV
FIFNIQNDTD VGGTVLNVSF SALAPRGAGA GAAGPWFSSE ELQEQLYVRR
AALAARSLLD VLPFDDNVCL REPCENYMKC VSVLRFDSSA PFLASATLF
RPIQPIAGLR CRCPGFTGD FCETELDLCY SNPCRNGGAC ARREGGYTCV

P Homo sapiens

656 193524 Cadherin EGF NP_001398.1
LAG Seven-Pass
G-Type Receptor
3 (CELSR3)

DTEAGRCV PGVCRNGGTC TDAPNGGRC QCPAGGAFEG
SSFMFRG LRQRHLTSLSFATVQQSGLLFYNGRLNE
QVRLTYSTGESNTVVVPTVPGGLSDGQWHTVHLRYNKK
PSKDKVAVLSVDDCDVAVLQFGAEGNYSCAAAGVQTS
LGGVNPIL ENFVSHKDFIGCMRDLHIDGRRVDMAAFV
KLHFCDSGPCKNSGFCSEWGSFCDPCVFGGKDCQLT
TLSWNFGSDMAVSPWYLG LAFRTRATQG VLMQVQAGPH
SVTVTRGS GRASHLLLDQ VTVSDGRWHD LRLELQEEPG
LDFSLFQDT MAVGSELQGLKVKQLHVGGLPFGSAEEAPQ
GSTPSGSPA LLPSHRVNA EPGCVVTNAC ASGPCPHAD
QPGYYGPG CVDACLLNPQNGQSCRHLPGAPHYTCDC
RMDQQCPRG WWGSPTCGPC NCDVHKGFDP NCNKTNGQCH
SCLPCDCY PVGSTSRSCA PHSGQCPCRP GALGRQCNSC
RVL YDACP KSLRSGVWVP QTKFGVLATV PCPRGALGAA
EPDLFNCTSPAFRELSLL DGLELNKTALDTMEAKKLAQ
YFSQDVVVTARLLAHLAFESHQGGFGLTATQDAHFNEN
TGDLWAAALGORAPGGSPGSAGLVRHLEEYAATLARNMIE
NIMLSIDRMEHPSSPRGARRYPRYHSNLFRQDADWDPH
PSEVLPTSSSIENSTTS SVVPPAPPEPEPGISIIL LVYRTLGLLL
RLPQNPMN SPVSVAVFHGRNFLRGILESPISLEFRLL
WDPPGLAE QHGVWTDARCELVHRNGSHA RCRCSTGTGF
LEGDELLA VFTHVVAVSVAALVLTAAI LLSLSLKSNN
GVAELLFL LGHRTHNQLVCTAVAILLHYFFLSTFAWL
VEPRNVDRG AMRFYHALGWGVPAVLLGLA VGLDPEGYGN
IWSFAGPVVLVVMNGTMFLAARTSCSTGQREAKKTS
VSASWLFGLLAVNHSILAFHYLHAGLCGLQGLAVLLL
WMPACLGRKAAPEEARPAPGLGPGAYNNTALFEESGLIR
ARSGRTQDQSQGRSYLRDNVLRHGSAAADHTDHS
AMFHRDAGADSDSDLSLEERSLSIPSSSEEDNGRTR
SERLLTHPKDVGNDLLSYWPAUGECEAPCALQTWGS
ANNQDPALTSGETSLGRAQRKKGILKNRLQYPLV
RAATLGHR AVPAASYGRIYAGGTGSLSPASRYSSRE
ERLEEAPVLRPLSRPGSQECMDAAPGRLEPKDRGST
AMAGRFGS RDALDLGAPREWLSTLPPPRRTRLDPQPP
DPLPSRP LDSLSSNS REQLDQVPSRHPSREALGPLQLLRAREDS
LDLSSILASFNSSALSSVQSSSTPLGPHTTATPSATA SVLGPSTPRS
EVPRSEGHS
cca gctccaac agcagttggc octaagtca gaattgggact aacatgagg ccacccggc
ccactatca gcaacctcc cctgtggcgg ccactgtcat tttgtgctat ggcgtcatct tctgtctg
tgg tctgttcat cgtgtcctaa gaaacggcaca tgcatactgt caccacaaatg ttacatcca

A Homo sapiens

658	193914	Neuropeptide FF 1 Receptor	NP_071429.1		P	Homo sapiens
659	194319	G Protein-Coupled Receptor FLJ22684	NM_025048		A	Homo sapiens

660	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	194319	NP_079324.1	<p>MKVGVLWLIS FFFTFDGHGG FLGKNDIDKT KKLIVNKKK HLGPEVEYQL LLQVTRYDSK EKRLRLNFK LLKPPLL WSH GLIRIRAKA TTDCNSLNGV LQCTCEDSYT WFPSPCLDPQ NCYLHTAGAL PSCECHLNNL SQSVNFCERT KIWGTFKINE RFTNDLLNSS SAIYSKYANG IEIQLKKAYE RIQGFESVQV TOFRMSLLSP KLECNGTI</p>	P	Homo sapiens
661	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NM_030774	194431	NM_030774	<p>atgagttcct gcaactcac aacgaccac ttgttgctta ttggtatcc aggaatagag aagaccatt tctgggttgg ctccccct ctttccatt atgtagtggc aalgitttga aactgcatcg tggcttcat cgttagagagc gaacgagcgc tgcagctcc gagtacatc ttctatga tctgtcagc catgtacgtg gccttatcca catccacct gcttaagatc ctggccatt tctggtttga ttccagagag attagcttg aggcctgct taccagag ttctttatc atgcccctc agccattgaa taccatcc tgcaggccat ggcctttgac cgtatgtgg ccatctgcca cccactggc calgtctgag tctatcaaa taccagttaaa gccagatg gcatctggc tgtgtccgc ggaiccccti ttittccc actgcccctg ctgataaac ggcctggccti ctgccatcc aalgctct cgcatctca ttgttccac caggatgtaa tgaagtggc ctatgcatg acttgccca atgtgtata tggcttact gccattctgc tggctatgg cgtggacgt atgtcatct cctgttccaa ttcttgata ataacgaacg tctgtcaact gctttccaa tcaagcggg ccaaaggccti tggaaactgt gtgtacaca ttgtgtgtgt actgcccct tatgtccac ttatggcct ctatgttgta caacgcttg gaaacagcct tcatccatt gtcgtgttg tcaagggtga catctaccc ctgtgccc ctgtatcaa tccatcac talgggtcca aaacaaaca gatcagaaca cgggtgctgg ctatgtcaa gatcagctgt gacaaggact tgcaggctgt gggagggcaag tga MSSCNFTHAT FVLIGIPGLE KAHFWVGFP LSMYVVMFNG CIVVFIVRT ERSLHAPMYL FLCMLAIDL ALSTSTMPKI LALFWFDSRE ISFEACLTM FFTHALSJE STILLAMAFD RYVAICHPLR HAAVLNNTVT AQIGIVAVVR GSLFFFPLPL LIKRLAFCHS NVLSHSCVH QDVMLKAYAD TLPNVYGLT ALLVMGVDV MFISLSYFLI RTVLQPSK SERAKAFGTC VSHIGVVLAF YVPLIGLSV HREGNSLHPI VRVMGDIYL LLPVINPII YGAKTKQIRT RVLAMFKISC DKDLQAVGK</p>	A	Homo sapiens
662	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	194431	NP_110401.1	<p>actttttca tgttctcti gtagtgaaga tgaaggaaat gaaagcagag tatgcacct ttattggag attcaactg catctactg gattagccc aagaftctca aaatacaag acatccatct gacagatcac tgaaggagag actgtttt ctgttttga atagtccg attaaacti ttatctcaag aagaaagaa gctagtatt tctacccag gtagtgaatt gtgtttggc ttacacatg ctctgccc tgccttgaac cttaggggc tgggtgctgt cgtgtgttga ctactgac gcatcttti ggcactgggc atctggagga ttgtgtatcag gatccaaaga ggaatactca ctctcatc aagcacccct acagagctgt gcaaggaaagg tggaaacttg gaaatggca gtagatttg tacaagaag tggaaaggac tgaatgtac aaugtcaat ttgtgtaaa atagtacta tatgggtti acttttcca gaaloccat gggcagatat ggaacatct tgcacacatg tggcagagat actccaaatg cgggcaatcc aatggcagtc cgtgtgttga gtcctctct atattggag atagaattac aaaaagtgac aataggaaat tgcaltgaaa atcttgaaac cctggaaaag cagggtagag atgtcacagc accactaat aacatttct ctgaagtcca gatttataa tctgatgcca ataaattaac tgcctgagac alcactatgt ctacgtgagt ggttggacag alaltcaaa ctccagaaa tgccttact gaggcaaga aagtgtccat agtaacagtg agtcaactcc tagatccag tgaatgact ttcaaaagg tgcctgctac tgcataatg atgtccctta caacgttat tgaagcaatg gtagcttatt cctgtctt tgggtatcaa tcatgtgttg aacctaat agcaatacag tcaagcaatt tctttcaga aaalgcggg gggccttcaa atgtccag ccttgcag aaaggagctia gcagttct agttttcagt tcaacatta tacaacaa tgtgtgtggc cttaacccag atgcacagc tgaagcttca gtctgtia atagtacgaa aaattacac aagacalgc gcttttagi taltcaaat gcaaaagcti tccatcaaa aacttttca gctaaatgg atttagica aaaaattac tcaagcaaaa ctgatgaaa tgaagcaagt cagtagctgt ctgtgacal ggttttagi ccaaatgata accaaaaaga attcaactc taltctalg cctgtgtcta ttggaaatg tcaagcagag actgggacac atatgctgt caaaaagaca agggcactga tggattcttg cgtgtccgct gcaacacatc tactaatt gtgtatata tgaatttcaa aaaggattat caatatocca</p>	P	Homo sapiens
663	194743	FLJ14454	NM_032787	194743	FLJ14454	<p>actttttca tgttctcti gtagtgaaga tgaaggaaat gaaagcagag tatgcacct ttattggag attcaactg catctactg gattagccc aagaftctca aaatacaag acatccatct gacagatcac tgaaggagag actgtttt ctgttttga atagtccg attaaacti ttatctcaag aagaaagaa gctagtatt tctacccag gtagtgaatt gtgtttggc ttacacatg ctctgccc tgccttgaac cttaggggc tgggtgctgt cgtgtgttga ctactgac gcatcttti ggcactgggc atctggagga ttgtgtatcag gatccaaaga ggaatactca ctctcatc aagcacccct acagagctgt gcaaggaaagg tggaaacttg gaaatggca gtagatttg tacaagaag tggaaaggac tgaatgtac aaugtcaat ttgtgtaaa atagtacta tatgggtti acttttcca gaaloccat gggcagatat ggaacatct tgcacacatg tggcagagat actccaaatg cgggcaatcc aatggcagtc cgtgtgttga gtcctctct atattggag atagaattac aaaaagtgac aataggaaat tgcaltgaaa atcttgaaac cctggaaaag cagggtagag atgtcacagc accactaat aacatttct ctgaagtcca gatttataa tctgatgcca ataaattaac tgcctgagac alcactatgt ctacgtgagt ggttggacag alaltcaaa ctccagaaa tgccttact gaggcaaga aagtgtccat agtaacagtg agtcaactcc tagatccag tgaatgact ttcaaaagg tgcctgctac tgcataatg atgtccctta caacgttat tgaagcaatg gtagcttatt cctgtctt tgggtatcaa tcatgtgttg aacctaat agcaatacag tcaagcaatt tctttcaga aaalgcggg gggccttcaa atgtccag ccttgcag aaaggagctia gcagttct agttttcagt tcaacatta tacaacaa tgtgtgtggc cttaacccag atgcacagc tgaagcttca gtctgtia atagtacgaa aaattacac aagacalgc gcttttagi taltcaaat gcaaaagcti tccatcaaa aacttttca gctaaatgg atttagica aaaaattac tcaagcaaaa ctgatgaaa tgaagcaagt cagtagctgt ctgtgacal ggttttagi ccaaatgata accaaaaaga attcaactc taltctalg cctgtgtcta ttggaaatg tcaagcagag actgggacac atatgctgt caaaaagaca agggcactga tggattcttg cgtgtccgct gcaacacatc tactaatt gtgtatata tgaatttcaa aaaggattat caatatocca</p>	A	Homo sapiens

[illegible]

666	194745	G Protein- Coupled Receptor SLT7/MCH2	NP_115892.1	<p>aaocatttgc actgacacgt tggagaacaa ggataagac catocgac aatttggcc ttctttatc cggcattgc ctgtctgggt ctactgag agatacaat taagaagcgg tggtagaggt tggctttg attgacalc cccgagcag gtacttctgt atacacttia ttgacgata acaactttt ttuccctt acccttgat ttgggtgct atattttaat ttatgtat acttggaga tttatcaaca gaataagat gccagatgct gcaatccag tttacaaaa cagaagatga tgaagtggac aaagatggg ctgtgtc'gg tggtagtct talocaggt ctgtccctt atcagttt acaacttgg aacttacaga tggacaagcc cacactggcc ttatgttgg gttatgct ctccatgt ctacagatg ccagcagcag cattaaocct ttcttaca tctgtctgag tggaaattc cagaaacgic tgcctcaat ccaagaaga ggcactgaga aggaataca caataggga aacacttga aatcacacti ttaggaaagt acatgagatca ocatgagct agacatggt gtatctta ctgtttat ttgaaaggcc aggtgtaccc atatgtat gccattct ctgtgtact tgtgactt agcagcatgg aagaagaagt taaccatga aatacaatga gcttaatg ctaactga aaaaaaaa aaaaaaaa</p> <p>MNPFHASCWN TSAELLNKS W NKEFAYQTAS VVDTVILPSM IGIICSTGLV GNILIVFTII P RSRKKTVPDI YICNLAVADL VHIVGMPFLI HQWARGGEVW FGGPLCTIIT SLDTCNQFAC SAIMTVMSVD RYFALVQFPR LTRWRTRYKT IRINLGLWAA SFILALPVWV YSKVIKFDG VESCAFDLTS PDDVLWYTL YLTITFFPL PLILVCYILI LCYTWEMYQQ NKDAROCNPS VPKQXVMKLT KMVLVLVWF ILSAAPYHVI QLVNLQMEQP TLAFYVGYL SICLSYASS INPFLYLLS GNFKRLPQI QRRATEKEIN NMGNTLKSHP</p>	Homo sapiens
667	194756	Chemokine Receptor FKSG80/GPR81	NM_032554	<p>ccacacac aggaaccca tcttgggtga tgaagtcaaga cagcagcag ctgggtgagt gctaacgic agataagcat ctgtgcat ttggggcctc cctggggctc tctgacccg gacactgct ctgtccccc catgtacaac gggtcgtgt ggccatcga ggagggaac atctccagc tgaagccgc gctgctcat ttggcttgg tctggggcc actaggcat ggggcgccc tgtgtggti ctgttccac atgaagacct ggaagccag cactgttac ctittcaat tggccggggc tgaattcc cttatgact tgggtcctt tgggacagac tattaacca gacgtaga ca cgggctt ttgggacatc cctgocgagt ggaggctctc acgttggcca tgaacaggcc cgggagcatic gtttctctta cgggtgtggc tgcgacagc taattcaag tggtaaccc ccacacgg g'tgaacacta tctccaccc gg'tggcggt ggcatagct gcaocctgg ggccctggc atcttggga cagtgtat ttgtctgga aocattct g'cgtgcaaga g'acggccgc tcttctgaga gcttcatc ggagtcggcc aatgctggc atgacatcat gttcagctg g'agtcttta tgcctcctgg catctctta ttgtcct tcaagatgt ttggagcctg aggcgagagc agcagctggc cagcagcgt cggatgaaga aggcagaccc gttcatcag g'tgggca ttgtgtat cacatgtac ctgocaggg tgtctgttag acttatc cttgacgg tgcctcgag tgcctcgat cctctgct atggggccct g'acalaaoc ctacgttca octacatga cagcagc tgcctcgg g'tattatt ttcaagccc tctttcca aatctaca caagctcaaa atctgcagc tgaacccaa g'cagccagga cactcaaaa cacaagggcc ggaagagatg ccaattcga acctggctg caggagtg atcagtg'gg caaatgti ocaagccag tctgtggc aatgggatcc occatgtt g'gttggcat g'acaagcag accaaca caagagaga t'gagtg'gg acttgaatt aacttggct aagggtcgg gggttga aatgcaacc occitctia ttgcaagag gcttctcga catgaactgc atctctca ttcttggga aatgaatic acacactat accttggg g'aggtccag tt</p> <p>MYNNGSCCRPE GDTISQVMP LLIIVAFVLGA LGNGVALCGF CFHMKTWKPS P TVYLENLAVA DELLMICLPF RTDYVLRRLH WAFGDPCRV GLFTLAMNRA GSIVFLTVVA ADRYFKVVP HHA VNTSTR VAAGIVCTLW ALVILGTVYL LLENHLCVQE TAVSCSFIM ESANGWHDIM FQLEFFMPLG IILFCSFKIV WSLRRRQOLA RQARMKKATR FIMVVAIVFI TCYLPVSUAR LYFLWTVPSS ACDPSVHGAL HITLSFTYMN SMLDPLVYF SSFSPKPKFYN KLIKCSLKP</p>	Homo sapiens
668	194756	Chemokine Receptor FKSG80/GPR81	NP_115943.1		Homo sapiens

[illegible]

Accession	Gene	Protein	Enzyme	Sequence	Species
671	194858	G Protein-Coupled Receptor LS194858	LG94710	<p>QGLFIFLHC LLNSEVRAAF KHKTKVWSLT SSSARTSNAK PFHSDLMNGT RPGMASTKLS PWDDKSSSAH RVDLSAV</p> <p>tiagttaag tccagataga cactgcttg gctgcttgagg tggtagagcaa tgcctggggcc gggagctgtcc cgggaggctc ttccocacag cccctgcaggg cacccttggg cggctgcctt ccaggggggct gttgagcgt gtagtcocag oocacaggt acgggacatg cctctgactt gggacttctt aggggagagaga gggagacaaagc tttccacaggc oocagtgctgctc ataggccagg actgtagagaga gcagtgtggc cactgtagggc oocacagcaa tcccgaaagag cagctatggct ccaagctatg ccttggcttg cctcagtgta agggccgggg ocaaggccggga ggggtctatcg cggcacacatg cccgtctacag ccggcagatg tctctgcaagt gggcgtgggg agtggccagc acggcgacagc agtagagagc agtagagagc agtagagagc agtagagagc atagacttg agtagagagc agggggggctgg gtagtagagc tggtagagc agtggagc agtggagc agtggagc ocagagcggg cagatctggca aagtagcaggg gacacagcca ggttagagagc agggccagcc gaatgctcc agggggggcgg agtggcccca gtagcgtctt cctgtgaccca gtagagagat gtagagagat gtagagagat gtagagagat gtagagagat agtagagag agtagagagc agtagagagc agtagagagc agtagagagc agtagagagc agtagagagc agtagagagc ocagtagagc agtagagagc agtagagagc agtagagagc agtagagagc agtagagagc agtagagagc agtagagagc ocagtagagc agtagagagc agtagagagc agtagagagc agtagagagc agtagagagc agtagagagc agtagagagc ocagtagagc agtagagagc agtagagagc agtagagagc agtagagagc agtagagagc agtagagagc agtagagagc gctggggcag tccagagc tggggggc cactgtgct cctggggagagc gggagagagc gggagagagc gggagagagc mtpnstgcvp spipkgalgl slalasliit nlllalgia gtaacaatcw qdrhgnrc ragcsnsltl rkaqagqalp apnshacrlp lqdspvprtk lllpeptagw aahgsgiatl pglwnqrrrg ywscllvylla pnfslsla nlllvhger y mavlrplqpp gsirlalllt wagpllfasl palgwnhwtp gancssqaf papyllevy glllpavga aflsvravl ahrqlqdicr leravcrdep salaraltwr qaraqagaml lfglcwgpv atlslslay eqrpplpgpt llslslgsa saaaavpamg lgdqrytapw rppkgacacg cgpepgtvp apalpttqaa kavstwt</p>	Homo sapiens
672	194858	G Protein-Coupled Receptor LS194858	ENSP000000053 533	<p>icaaggccag gtagagagaa tcatggggc caccagcagc gtagagagc tgggggggtt ttgacttaa tttatitcc atgttagcac agtagagc tggcagatga gtagagagcag gcttagagc cagcaagaac tggatitcaa actgagattg agggacccca ccttttgata gggtagat tctctgtgag tctctgact gctctttaa atagagagag taaatccac atggcagggg gggtgggagaga atcagagatc atcagagatc tttatcagac tggattctt ttccagggc accagagcagc ggtttctgag cagtagatca accatccag tctggggatc agtagagagc ocaatcagc gtagagagagc gtagagagc taccagagaga ccttagagctt cagggggcag atgtgagc tttccctt cggcgtgaca gggagagcgg tttgtgtcttg gctctgggg ttccggcagc gtagagagc tttctcagc taccatcag accgtgagc gggcagcagc cttctttaa gggcagacat taaatggc cgttagcagc tcatcagat ccggccatcc atctcagaa tctcagagc tttatgagc tttccatc tttatgagc atgtagagc agggccatca gtagagagc cttgctgtcc atctgtgagc ocatctgta ccatctgagc cggccagat accgtgagc ggtagagctt gctgtgctt gggccagc cctgtgagc agtagagc agtagagc agtagagc agtagagc agtagagc ttgtttgggt gtagagagc atttatcag atgtgagc agtagagc agtagagc agtagagc agtagagc agtagagc cagtagagc tttgtgagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc tctgtgagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc oatitctt gtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc ttagagcagc tctcagagc gtagagagc acagcagc agtagagc agtagagc agtagagc agtagagc agtagagc gtagagcagc gtagagagc gtagagagc gtagagagc gtagagagc gtagagagc gtagagagc gtagagagc oatitctt gtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc</p>	Homo sapiens
673	194878	MrgX3 G Protein-Coupled Receptor	AY042215	<p>icaaggccag gtagagagaa tcatggggc caccagcagc gtagagagc tgggggggtt ttgacttaa tttatitcc atgttagcac agtagagc tggcagatga gtagagagcag gcttagagc cagcaagaac tggatitcaa actgagattg agggacccca ccttttgata gggtagat tctctgtgag tctctgact gctctttaa atagagagag taaatccac atggcagggg gggtgggagaga atcagagatc atcagagatc tttatcagac tggattctt ttccagggc accagagcagc ggtttctgag cagtagatca accatccag tctggggatc agtagagagc ocaatcagc gtagagagagc gtagagagc taccagagaga ccttagagctt cagggggcag atgtgagc tttccctt cggcgtgaca gggagagcgg tttgtgtcttg gctctgggg ttccggcagc gtagagagc tttctcagc taccatcag accgtgagc gggcagcagc cttctttaa gggcagacat taaatggc cgttagcagc tcatcagat ccggccatcc atctcagaa tctcagagc tttatgagc tttccatc tttatgagc atgtagagc agggccatca gtagagagc cttgctgtcc atctgtgagc ocatctgta ccatctgagc cggccagat accgtgagc ggtagagctt gctgtgctt gggccagc cctgtgagc agtagagc agtagagc agtagagc agtagagc agtagagc ttgtttgggt gtagagagc atttatcag atgtgagc agtagagc agtagagc agtagagc agtagagc agtagagc cagtagagc tttgtgagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc tctgtgagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc oatitctt gtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc ttagagcagc tctcagagc gtagagagc acagcagc agtagagc agtagagc agtagagc agtagagc agtagagc gtagagcagc gtagagagc gtagagagc gtagagagc gtagagagc gtagagagc gtagagagc gtagagagc oatitctt gtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc agtagagc</p>	Homo sapiens

[illegible]

[illegible]

RSCSFNEHGY HLFQAMRLGV BEINNSTALL PNITLGYQLY DVCSDSANVY
 ATLRVLSLPQ QHHIELOQDGL LHYSPTVLAV IGPDSTNRAA TTAALLSPFL
 VHISYAASSE TLSVKRQYPS FLRTIPNDKY QVETIMVLLQ KFGWTWISLV
 GSSDDYQGLQ VQALENQALV RGICIAFKDI MPFSAQVGVDE RMOQIMRHLA
 QAGATVVVVF SSRQLARVFF ESVVLTNLITG KVVVAVASEAW LSRHITGVPG
 IQRIGMVLGV AIQKRAVPGL KAFEEAYARA DKEAPRPCHK GSWCSSNQVC
 RECOAFMAHT MPKLKAFSMS SAYNAYRAVY AVAHGLHQLL GCASELCSRG
 RVPYPWQLLEQ IHKVHFLLLHK DTVAFNDNRD PLSSYNILAW DWNGPKWTFT

Homo sapiens

P

**G Protein-
Coupled Receptor
GPCRB3**

194903

676

677	194904	WO0034334- hFB41A	AX147788	<p>gagcaacag atcttttga aglactgac ggtgtcgtc ttgaogtca cgaagcacaag agtntgac atgctgtgc tcatggcgaat gcactgacg atgtagaag cagttaggga gctcttcc ttacaaca cgtgtgtggaa gaagtgcgcg acgagtgtga agccgtaga gggcgccag calagcag agtgcgtgtga gtagcag agcacacag agcacacag ccgtctct gctgcgcgc agctctgc ggtatctc tcttgaat ccaggagccg cctgaaca gactcccg gtagctcgg calagcag ggtatgtg accagggc ccacgaatc tagcaaatc ataaaggtga agtaggact gtagtagagc tctgtgtca caggcagat ctggccgag aagatctt cttgctct gacatgac agcacagct cgtgtgtga gtaggcgtga ggtaggtga ttaggtga caccgtcac accaaggcaa ttagcagat ggtgtgtg cactcatic gttgtctag cgtgtga atagcagat acttaggca agacacaag ttaggagc c</p> <p>MGFMDDNATN TSTSFLSVLN PHGAHATSPF ENFSYSDYDM PLDEDEDVTN SRTFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLJANL AISDFLVAIV</p> <p>CCPFEMDYVH VRQLSWEHGH VLCTSVNLYR TVLSYVSTNA LLAIADRYL AIVHPLRPRM KCQTATGLJA LVWTVSILJA IPSAYFTTET VLIVKXQEK IFCCGQWFPVD QQLYKSYFL FFGIEFVGP VVTMLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFEFTVF VKEKHLYLAF YIVECIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNGGKSSADL DLKTIGMPAT EEVDCIRLK</p>	A	Homo sapiens
678	194904	WO0034334- hFB41A	LR114	<p>ggcacagagc gcccgcgc atgtgtgaat gtagctagtt caacggcaca gggctgtgtgg agtgaagctgc tgcctgtcag gaactgtcagc tggggctgic actgtgtgc ctgtgtggcc tgggtgtggc cgtgtcagtg ggtcctgtct acacgctc gctgtgtctg gccaactac acagcagagc cagcagtag acgtccggagc tgaattgt caacatggca gttgcagagcc tgggtctag cgtccctggcc cctgtcaac tcttggccc cctgtgtcc tgggtgtggc tgtgtgtgtg gggcgtgtga gtccagtg cactgtcagat cccctcaat gttgtctac tgggtgtcag gtaacac gctccctgtga gtaacac ctacatggc cgtgtcagc cgtgtgacct caatggcagc gttgtacaca cgtgtgtcagc gttgtgtgtg gctgtgtct gtaacgttc tctctgct tcttcaat ctgtcagcagat gttgtcaac gctgtgtcag gttgtgtg atgtcaagag cagtagctgc cgtgtgtcag cttgtgtca tgggtgtctg tgggtgtcag cttgtgtcag tctgtgtct ggtgtctc tccgtgtcc gtaggtgtga cagccccc gtaacgtgtc gtaacgtgtc gtaacgtgtc gtaacgtgtc tctgtgtc caccgtgtc agcaggtgtg ggtctgtg gtaacgtgtc gtaacgtgtc gtaacgtgtc gtaacgtgtc cagcagctt gtagcagac tcttcaac ctagctgac cagtagctc cagtagctc cagtagctc cagtagctc tgcctgtc gtagcagac tcttcaac ctagctgac cagtagctc cagtagctc cagtagctc cagtagctc gtagcagac cagtagctc gtagcagac ttagtagc ttagtagc ttagtagc ttagtagc ttagtagc ttagtagc cgtgtgtc atgtgtc gtagcagac gtagcagac gtagcagac gtagcagac gtagcagac gtagcagac cgtgtgtc atgtgtc gtagcagac gtagcagac gtagcagac gtagcagac gtagcagac gtagcagac</p> <p>MGFMDDNATN TSTSFLSVLN PHGAHATSPF ENFSYSDYDM PLDEDEDVTN SRTFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLJANL AISDFLVAIV</p> <p>CCPFEMDYVH VRQLSWEHGH VLCTSVNLYR TVLSYVSTNA LLAIADRYL AIVHPLRPRM KCQTATGLJA LVWTVSILJA IPSAYFTTET VLIVKXQEK IFCCGQWFPVD QQLYKSYFL FFGIEFVGP VVTMLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFEFTVF VKEKHLYLAF YIVECIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNGGKSSADL DLKTIGMPAT EEVDCIRLK</p>	P	Homo sapiens
679	194905	G Protein- Coupled Receptor MGC7035	BC014241	<p>ggcacagagc gcccgcgc atgtgtgaat gtagctagtt caacggcaca gggctgtgtgg agtgaagctgc tgcctgtcag gaactgtcagc tggggctgic actgtgtgc ctgtgtggcc tgggtgtggc cgtgtcagtg ggtcctgtct acacgctc gctgtgtctg gccaactac acagcagagc cagcagtag acgtccggagc tgaattgt caacatggca gttgcagagcc tgggtctag cgtccctggcc cctgtcaac tcttggccc cctgtgtcc tgggtgtggc tgtgtgtgtg gggcgtgtga gtccagtg cactgtcagat cccctcaat gttgtctac tgggtgtcag gtaacac gctccctgtga gtaacac ctacatggc cgtgtcagc cgtgtgacct caatggcagc gttgtacaca cgtgtgtcagc gttgtgtgtg gctgtgtct gtaacgttc tctctgct tcttcaat ctgtcagcagat gttgtcaac gctgtgtcag gttgtgtg atgtcaagag cagtagctgc cgtgtgtcag cttgtgtca tgggtgtctg tgggtgtcag cttgtgtcag tctgtgtct ggtgtctc tccgtgtcc gtaggtgtga cagccccc gtaacgtgtc gtaacgtgtc gtaacgtgtc gtaacgtgtc tctgtgtc caccgtgtc agcaggtgtg ggtctgtg gtaacgtgtc gtaacgtgtc gtaacgtgtc gtaacgtgtc cagcagctt gtagcagac tcttcaac ctagctgac cagtagctc cagtagctc cagtagctc cagtagctc tgcctgtc gtagcagac tcttcaac ctagctgac cagtagctc cagtagctc cagtagctc cagtagctc gtagcagac cagtagctc gtagcagac ttagtagc ttagtagc ttagtagc ttagtagc ttagtagc ttagtagc cgtgtgtc atgtgtc gtagcagac gtagcagac gtagcagac gtagcagac gtagcagac gtagcagac</p> <p>MGFMDDNATN TSTSFLSVLN PHGAHATSPF ENFSYSDYDM PLDEDEDVTN SRTFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLJANL AISDFLVAIV</p> <p>CCPFEMDYVH VRQLSWEHGH VLCTSVNLYR TVLSYVSTNA LLAIADRYL AIVHPLRPRM KCQTATGLJA LVWTVSILJA IPSAYFTTET VLIVKXQEK IFCCGQWFPVD QQLYKSYFL FFGIEFVGP VVTMLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFEFTVF VKEKHLYLAF YIVECIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNGGKSSADL DLKTIGMPAT EEVDCIRLK</p>	A	Homo sapiens

680	194905	G Protein- Coupled Receptor MGC7035	LR112	<p>cctcctgccc ttagcctcc ttagcattca gttgtcaat gaagtgaaga aagcttagag ccagttatta tactttggg ttaaaatact tgattccccc ttgttgttt tacaaaaaca gaatttctt agzaaaatga caaalagtaa aatgaacaaa accctacgaa agaattggcaa cagccagggt ggccaggccc tgcagtgagg cggcgtgtgc tagcaaggcc tgcagggtgt ggcgcagtgca ccacagggtt ctgagzaatc ttacagaag tgcctgagac gggagagacat ggctgggttt aataggagct attcaatagc agtgacgccc ttcttcagc caacaaagt ccttgacac cccacagcc ccacagata aatcagctg aggtttttt cagtatgaac ctgtctaaa tcaattctc aaagtgtga caaaataaa gaataaat aaacaaaga aaggtgaata aaaaaaaa aaaa MWSCSWFNQT XLVEELXACQ DLQLGLSLLS LLGLVVGVPV GLCYNALLVL ANLHKSASMT MPDVVYFNMA VAGLVLSALA PVHLLGPSS RWALWSVGG VHVALQIPFN VSSLVAMYST ALLSLDHYE RALPRTYMAS VYNTRHVCGF VWGGALLTSF SLLFYICSH VSTRALECAK MQNAEADAT LVFIGYVVP LATLYALVLL SRVRREDTPL DRDTGRLEPS AHRLLVATVC TQFGLWTPHY LILLGHTVII SRGKPVDAHY LGLLHFVKDF SKLLAFSSSF VTPLLYRYMN QSPFSLQRL MKKLPCGDRH CSPDHMGVQQ VLA TCCGGACTAG TTCTAGACCG CTGGGGCCG CCAGGCGCG GGAATGTCCT CTGAATGCGC GCGGCGAGCG GCGGACGCG CCTTGGCAG CTTGGAGCAA GCCAACCGCA CCGCTTTCC CTCTCTCC GACGTCAAAG GCGACCACCG GCTGTGCTG GCGGCGGTGG AGACAACCGT GCTGTGCTC ATCTTTGCAG TGTCGCTGCT GGGCAACGTG TCGCCCTGG TGCTGTGGC GCGCGACGA CGCGCGCG CGACTGCCG CTGTGACTC AACCTCTCT GCGCGGACCT GCTCTTCATC AGCGCTATCC CTCTGTGCT GCGCTGCGG TGGACTGAGG CCTCCCTGCT GGGCCCCGTI GCGTGCCACC TGCTCTCTA CGTGATGACC CTGAGCGGCA GCGTCACCAT CCTACGCTG GCGCGGTCA GCGTGAGGG CATGTGTRGC ATCGRGACC TGGAGCGCG CGTGGCGGT CCTCGCGGC GGCGCGGGC AGTGCTGCTG GCSCTCATCT GGGCTATTG GCGGTGCGC GCTCTGCC TC TGCGGTCTT CTITCGAGTC GTCCGCAAC GGCTCCCGG CGCGACCA GAAATTGGA TTTCACACT GATTGGCCC AGCATTCCTC GAGAGATCTC GTGGGATGTC TCTTTGITA CTTGAACIT CTITGGTCCA GGACTGGTCA TTGTGATCAG TTACTCAA AATTTACAGA TCACAAAGG ATCAAGGAAG AGGCTACCG TAAGCCTGG CTACTCGGAG ACCCACCAGA TCGCGGTGTC CCAGCAGGAC TTCGGGCTCT TCGCACCT CTTCCTCCTC ATGGTCTCCT TCTTCATCAT GTGGAGCCC ATCATCATCA CCATCCTCT CATCTGATC CAGAACTTCA AGCAAGACT GGTATCTGG CCGTCCCTCT TCTCTGGGT GGTCCCTTC ACATTGCTA ATTCAGCCT AAACCCATC CTTACACA TGACACTGT CAGGAATGAG TGGAAAGAAA TTTTGTCTG CTTCTGTTT CCAGAAAGG GAGCAATTT AACAGACACA TCTGTCAAAA GAAATGACTT GTCGATTATT TCTGGCTAAT TTCTTTATA GCCGAGTTT TCACACCTGG CGAGCTGTGG CATGCTTTA AACAGAGTTC ATTCCAGTA CCTCCATCA GTGCACCCCTG CTTAAGAAA ATGAACCTAT GCAAAATAGAC ATCCACAGCG TCGGTAAAT AAGGGGTGAT CACCAAGTTT CATAATATT TCCCTTTATA AAAGGATTGT TTGGCCAGGT GCAGTGGTTC ATGCTGTAA</p>	P	Homo sapiens
681	194907	G Protein- Coupled Receptor 14273	LD22826	<p>QSPFSLQRL MKKLPCGDRH CSPDHMGVQQ VLA TCCGGACTAG TTCTAGACCG CTGGGGCCG CCAGGCGCG GGAATGTCCT CTGAATGCGC GCGGCGAGCG GCGGACGCG CCTTGGCAG CTTGGAGCAA GCCAACCGCA CCGCTTTCC CTCTCTCC GACGTCAAAG GCGACCACCG GCTGTGCTG GCGGCGGTGG AGACAACCGT GCTGTGCTC ATCTTTGCAG TGTCGCTGCT GGGCAACGTG TCGCCCTGG TGCTGTGGC GCGCGACGA CGCGCGCG CGACTGCCG CTGTGACTC AACCTCTCT GCGCGGACCT GCTCTTCATC AGCGCTATCC CTCTGTGCT GCGCTGCGG TGGACTGAGG CCTCCCTGCT GGGCCCCGTI GCGTGCCACC TGCTCTCTA CGTGATGACC CTGAGCGGCA GCGTCACCAT CCTACGCTG GCGCGGTCA GCGTGAGGG CATGTGTRGC ATCGRGACC TGGAGCGCG CGTGGCGGT CCTCGCGGC GGCGCGGGC AGTGCTGCTG GCSCTCATCT GGGCTATTG GCGGTGCGC GCTCTGCC TC TGCGGTCTT CTITCGAGTC GTCCGCAAC GGCTCCCGG CGCGACCA GAAATTGGA TTTCACACT GATTGGCCC AGCATTCCTC GAGAGATCTC GTGGGATGTC TCTTTGITA CTTGAACIT CTITGGTCCA GGACTGGTCA TTGTGATCAG TTACTCAA AATTTACAGA TCACAAAGG ATCAAGGAAG AGGCTACCG TAAGCCTGG CTACTCGGAG ACCCACCAGA TCGCGGTGTC CCAGCAGGAC TTCGGGCTCT TCGCACCT CTTCCTCCTC ATGGTCTCCT TCTTCATCAT GTGGAGCCC ATCATCATCA CCATCCTCT CATCTGATC CAGAACTTCA AGCAAGACT GGTATCTGG CCGTCCCTCT TCTCTGGGT GGTCCCTTC ACATTGCTA ATTCAGCCT AAACCCATC CTTACACA TGACACTGT CAGGAATGAG TGGAAAGAAA TTTTGTCTG CTTCTGTTT CCAGAAAGG GAGCAATTT AACAGACACA TCTGTCAAAA GAAATGACTT GTCGATTATT TCTGGCTAAT TTCTTTATA GCCGAGTTT TCACACCTGG CGAGCTGTGG CATGCTTTA AACAGAGTTC ATTCCAGTA CCTCCATCA GTGCACCCCTG CTTAAGAAA ATGAACCTAT GCAAAATAGAC ATCCACAGCG TCGGTAAAT AAGGGGTGAT CACCAAGTTT CATAATATT TCCCTTTATA AAAGGATTGT TTGGCCAGGT GCAGTGGTTC ATGCTGTAA</p>	A	Homo sapiens

682	194907	G Protein- Coupled Receptor 14273	LR116	<p>TCCAGCAGT TTGGGTGAG GTGGGTGGAT CACCTGAGGT CAGGAGTTCC AGACCAACCT GACCAACATG GTGAGACCCC CGTCTCTACT AAAATAAAA AAAAAATTA GCTGGGAGTG GTGGTGGGCA CCGTGAATCC TAGCTACTTG GGAGGCTCAA CCACGAGAAT CTCTGAACC TGGGAGGAC AGGTGTCAGT GAGCCGAGAT CGTGCCATTG CACTCCAACC AGGGCAACAA GAGTGAAACT CCATCTTAAA AAAAAAAA AAAGATTGTTGT TATGGGTCC TTTTAAATGT GAACTTTTT AGTGTGTTTG TATATGATCA AATTAAATA ATATTATTT ATGACTGTTC AGCAAAAAA AAAAAAAA AGGGCGG MSPECARAAG DAPLRLEQA NRTFPFFSD VKGDHRL VLA AVETTVLVLI FAVSLGNVC ALVLVARRRR RGATACLVLN LFCADLLFIS APLVLVVRW TEAWLLGPVA CHLLFYVMTL SGSVTILTLA AVSLDRMVCV VMLQRGVRCF GRRARAVLLA LIWGSAAVA LPLCVFRVW PQLRPGADQE ISICTLIWPT IPGEISWDVS FVTNLNYPG LVIVISYSKI LQITKASRKR LTVSLAYSRS HQIRVSQQDF RLFRITLLAM VSFIMWSP I IDTILLILQ NFKQDLVIWP SLPPVWVAPT FANSALNPIL YNMTLCRNEW KKIFCCTWEP EKGAILTDT S VKRNDLSIIS G ITYSAJSDDEL RDKVREFALL RTTPSADHHV EAMVQLMLHF RWNWIVLVS SDTYGRDNGQ LLGERVARRD ICIAFQETLP TLQPNQNMST EERQRLVTIV DKLQQSTARV VVVFSPDLTL YHFFNEVL RQ NFTGAVVIAS ESWAIDPVLH NLTELGHGTT FLGITQSV IPGFSEFEW GPQAGPPPLS RTSQSYTCNQ ECDNCLNATL SFNTILRLSG ERVVVSVYSA VYAVAHALHS LLGCDKSTCT KRVVYPWQLL EEIWKVNFIL LDHQIFDPQ GDVALHLEIV QWQWDRSQNP FQSVASYPL QRLKNIKTS LHTVNNTIPM SMCSCRQSQG QKKKPVGIHV CCFECIDCLP GTFLNHTCEP NNEWSYQSET SCFKRQLVFL EWHEAPTIAV ALLAALGFLS TLAILVIFWR HFQIPIVRSA GGPMLCFLMLT LLLVAYMVVP VYVGPVKVST CLCRQALFPL CFTICISCIA VRSFQIVCAF KMASRFPFRAY SYWVRYQGPY VSMATITVLK MVVVVIGMLA RPQSHPRITDP DDPKITIVSC NPNYRNSLLF NTSLDLLSV VGFSFAYMGK ELPTNRYNEAK FITLSMIFYF TSSVSLCTFM SAYSGVLVTI VDLLVTVLNL LAISLGYTFGP KCYMLIFYPE RNTPAYFNISM IQGYTMRRD</p>	P	Homo sapiens
683	194908	G Protein-coupled Receptor Gpcrb4	LR117	<p>atgagcagca attcaatcct gctggggcgt ggcagcgtg gctacgcgaa cgtgaatggg tctgtgtgga aaatccctt ctgcgcggga tcccgggga ttctgtacat aggtttggc ttggggcgtg tgcggcgtg gttggaaac ctctgtggga tgaattcaat octocattic aagcagcgtc acttcocgac caatttctc gtgcctctc tggccgtgc lgtttcttg gtgggtgga cgtgaltgoc cttcagcalt gtcagacagg tggagagctg ctggatitit ggagagagat ttgtactt ccacacctgc tggaltggt catttgta ctctctctc ttcaactgt gcttcatctc catgacagg tacaatggg ttactgacct octactcaagt tccaccgtac tggltcagga attgtcalca gctgttcttg galtctgccc ctcatgaca gcgggtgctg gttctacaca ggtgtcaltg acgaltggcct ggaggaatta tctgtatgccc taaactgtat aggaagggtt gtagacgttg taaatcaaaa ctgggtgtg acagattttc tatctctt tatacctacc ttatattga taattctga tggtaacata ttctgttgg ctgagacgaca ggaggaanaag atagaaata ctgtatgcaa gacagaaica tctcagagga gttacaaagc cagagtggtgoc aggaagagaga gaaaagcagc taaaaccttg gggttcacag tggtagcatt taigtattca tggttacct atagcattga ttcaattt galgctttat tgggtttat aacctgtcc tgtattatg agatttgctg ttgggtgtgt tatataact cagccatgaa tctttgat tatgcttat ttaccatg gtttaggaaa gcaataaag</p>	P	Homo sapiens
684	194957	Trace Amine Receptor 4 (TA4)	AF380192	<p>atgagcagca attcaatcct gctggggcgt ggcagcgtg gctacgcgaa cgtgaatggg tctgtgtgga aaatccctt ctgcgcggga tcccgggga ttctgtacat aggtttggc ttggggcgtg tgcggcgtg gttggaaac ctctgtggga tgaattcaat octocattic aagcagcgtc acttcocgac caatttctc gtgcctctc tggccgtgc lgtttcttg gtgggtgga cgtgaltgoc cttcagcalt gtcagacagg tggagagctg ctggatitit ggagagagat ttgtactt ccacacctgc tggaltggt catttgta ctctctctc ttcaactgt gcttcatctc catgacagg tacaatggg ttactgacct octactcaagt tccaccgtac tggltcagga attgtcalca gctgttcttg galtctgccc ctcatgaca gcgggtgctg gttctacaca ggtgtcaltg acgaltggcct ggaggaatta tctgtatgccc taaactgtat aggaagggtt gtagacgttg taaatcaaaa ctgggtgtg acagattttc tatctctt tatacctacc ttatattga taattctga tggtaacata ttctgttgg ctgagacgaca ggaggaanaag atagaaata ctgtatgcaa gacagaaica tctcagagga gttacaaagc cagagtggtgoc aggaagagaga gaaaagcagc taaaaccttg gggttcacag tggtagcatt taigtattca tggttacct atagcattga ttcaattt galgctttat tgggtttat aacctgtcc tgtattatg agatttgctg ttgggtgtgt tatataact cagccatgaa tctttgat tatgcttat ttaccatg gtttaggaaa gcaataaag</p>	A	Homo sapiens

685	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	<p>ttattgaac tggtcagggt ttaagaaca gttcagaac calgaattg ttcttgaac atataaa MSSNSLLVA VQLCYANVNG SCVKIPSPG SRVILYTVFG FGAVLA VFGN LLVMISILHF KQLHSPTNEL VASLACADEL VGVTVMPFSM VRTVESCWFYF GRSFTFHTC CDVAFCYSSL FHLCFISIDR YIAVTDPLVY PKFTVSVSG ICISVSWILP LMYSGAVFYT GYVDDGLEEL SDALNCIGG QTVVNQNWVL TDFLSFFIPT FTMILYGNL FLVARRQAKK IENTGSKTES SSESYKARVA RRERKAAKTL GVTVVAFMIS WLPYSDSL DAFMGFTPA CIYEICCCWA YNSAMNPLI YALFPWFRK AIKVIVTGQV LKNSSATMNL FSEHI</p>	P	Homo sapiens
686	194958	Trace Amine Receptor 5 (TA5)	AF380193	<p>atgacagca attttcca aactgttg cagcttggc atgaggagt gaaaggatc tgaatgaaa ctccatttc tctgggtcc cgggtaatic tgaacaggc gttagctt gggctgtatt tggaaatcic tgaataaga cttctgtct tcatttaag cagctgcaat ctcaacaaa ttcttcatt gctctctgg cctgtgctga cttcttgga ggtgtgacig tgaigtctt cagcagtgic aggacgggtg agagctgctg gtaatttga gccaatttt gtaacttca cagttgctgt gaaigtggcal ttgtttact tctgtctc catttggct tcatctgcat cgaacagttac attgttgga cgaatccct ggtctatct accaagtcca cgtgtctgt gtcggggaat tgcaicagcg tgtctggat tctgctctc acgtacagcg gttgtgtgt ctacacagt gtaaatgat atgggcttga ggzaattaga agttcttca actgctgtag tggctgtcaa atattgtaa gtcaaggctg ggtttgata gattttctg tattttcal acctacccct gttatgataa ttctttacag taagatttt ctatagcta acaacaagc taataaati gaaactacta gtagcaaat agaaatccct tcaagaagt ataaatcag agtggocaa agagaagaga aagcagctaa aacctgggg gtcacgtac tagcaattgt tautcagg taacogata cagtgtatg ataatgat gctttatgg gctctggac ccttgccat aictatgaaa tttgcgttg ggtgtctat tataactcag ccatgaatc ttgattat gctctatt atctctgt taggaaagcc ataaaaacta tttaagg agattttta aaggctagt catcaaat tagttatt ttagaataa</p>	A	Homo sapiens
687	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	<p>MTSNFSQPVV QLCYEDVNGS CIETPSPGS RVLYTAFSF GSLLAVFGNL LVMTSVLHFK QLHSPTNFLI ASLACADELV GVTVMLFMSV RTVESCWFYF AKFCTLHSCC DVAFCYSSVL HLCFICIDRY IVVTDPLVYA TKFTSVSVGI CISVSWILPL TYSGAVFYTG VNDDGLEELV SALNCVGGCQ IVSQGWVLI DFLFFIPTL VMILYSKIF LIAKQQAUKI ETTSSKVESS SESYKIRVAK RERKAATLG VTVLAFVISW LPYTVDDLID AFMGFLTPAY IYEICCCWSAY YNSAMNPLY ALFPWFRKA IKLLSGDVL KASSSTISLF LE</p>	P	Homo sapiens
688	194959	MrgX4 G Protein-Coupled Receptor	AY042216	<p>tgcaggct tctctctgt ccaaggatga ccagctctag tcaagagtgt gtcaacaaca cctcttgg tatttgaat octcaactg aaagaanaat tcaagoccaa gatagattaa tcatcgggtc caaagocctg gcccgaatgag tgggggtgt tgaactaa tgatttccc atgtcagcac agaactgtg tggcagtaga gaaagtgtcag gcttcagagt caacaagaac tggatttcaa actggatttg aggaatccca cctttgttaa gtagattat atctgcagc cttgttct cttcttta aatgaaggaca gtaaatccca tacggcaggg tgggtggggag aatcagaagt gatacagctg gtgatacal ctgttttgg ttccaggggg caacagacta gagtttttga gcatgtaac aactgtccca gttcttggta caaaactgac accaatcaac ggaactgtgag agactcttg ctacaatcag acctgaagt tcaagggtgt gacgtgtcalt atttccctg tgggactgac agtgaacggc gtagtgtct ggctctggg ctaccgcatg cgtcaggaaag cgtctccat ctacatctc aactggocg cagcagact cctctctc agcttccaga ttatagct gccaatagc ctacataa tcaagccalt catocccaa atocctgtt ctgtgatgac ctctccac ttacaggcc tgaatagct gaaagccalt agcaatcagc gctgocctg tttctgtg gctatgct accgtctggc ccgccccaca caactgtcag cgggtgtgtg tgtctgtc tggggctgt octtctgt tggatgtc gaaagtggag tctgtgact octtttagt ggtgtgtg tgaatgag gatttcal ccagctggc gctgatttt ttatgtgtg tctctgtg ttccagctg gttctgtg tcaaggatcc ctgtgtgact ccggaagatg cgtgtgactg gctgtacgtg accatctg</p>	A	Homo sapiens

689	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	<p>tcacagtgctt ggtcttcctc cctctgggoc tggoccttgg cattctgggg gcooaattt acaggaatgca cctgaatttg gaagtcttat attgtcatgt ttatcttggt tgcaltgccc tgcctctctt aaacagtagt gccaacocca tcaattact ctctgtgggc tcttiaggc agcgtcaaaa taggcagaac ctgaagcttg ttctccagag ggcctdgcag gacaaagcctg aggttgagataa aggtgaaggg cagcttcttg aggaagcctt ggaagctgic ggaagcagat tggggccatg agggagagoc tctgocctgt cagtcagacg ggactttgag agcaacatctg tcttgcacoc ctfgacaattt acatgcgtt ttcttagcgt ttgcctcagc aaatgctctca gttgaactc aaggtcttca aataatggt tatcaact gacatgca gtttcaacc alggaagagc ttgtctgac agtacaatgt ttgg MDPTVPVFGT KLTPINGREE TPCYNQTLSF TVLTCIISLV GLTGNAAVVLW P Homo sapiens</p> <p>LLGYRMRRNA VSIYILNAA ADFLFLSFQI IRSPRLINI SHLRKILVS VMITFPYFTGL SMLSIASTER CLSVLWPIWY RCRPHTLSA VVCVLLWGLS LLFMSLEWRF CDFLFSGADS SWCETSDP VAWLFLCVV LCVSSLLVLLV RILGSRKMP LTRLVVTILL TVLVFLLCGL PFGILGALY RMHLNLEVLY CHVYLVCM SL SSLNSSANPI IYFFVGSFRQ RQNRQNLKLV LQRALQDKPE VDKGEGQLPE ESLELSGRL GP</p>
690	195015	G Protein- Coupled Receptor GPR82	AF411111	<p>tttggzaaca ctcctctca alggaattt ttacaataaa taggtataaa aacatcaacg cacatctacc tgcacacct tgtgactgca aaacttacttg tgtgcagtcg calgoccttc atgagtatct attctctgaa aggtttccaa tgggaalac aatctgctca atgcagagtg gtcaatttc tgggaactct atocalgc atgagtagtg ttgtcagctct cttaattta agttgagtg ccataagccg ctatgctaac ttazlgcaaa aggaattctc gcaagagact acttcatgct atgagaaaat attttatggc catttactga aaaaatttcg ccagocccaa tttgctagaa aactatgcat ttacatagg ggaagtgtac tgggcataat catlocaggt accgtatact actcagtcac agaggctaca gaagagaag agaagcctatg ctacaatcg cagalggaac taggagccat gattctctcag attgcaagtc tcatgggaac cacatttat ggaatttctt tttagtagt actaacatca tactactcti ttgaagcca tctgaagaaa ataaagaaact gtacgtccat tatggagaata gatttagct acagtctgt gaaaagacat cttingtca tocagatct actaatagtt tgcitctctt cttagtagt ttttaaacoc alttttatg ttctacaca aagagataac tgtcagcaat tgaattatt aalagaaca aaaaacaltc tcaoctgtct tgcctggcc agaagtagca cagaocccat tatattctt ttatlagaca aaacattcaaa gaagacacata tataatctct ttacaagtc taattcagca catatgcaat catatggtg a</p> <p>MNNTTCIQP SMISSMALPI IYLLCIVGV FGNTLSQWIF LTKIGKKTST HIYLSHLVTA P Homo sapiens</p> <p>NLLVCSAMPF MSYFLKGFQ WEYQSAQCRV VNFLGTLSMH ASMFVSLIL SWAISRYAT LMQDSSQET TSCYEKIFYG HLKFKFRQPN FARKLCITYW GVVLGIIIPV TVYYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTTFI GFSFLVVLTS YYSFVSHLRK IRTCTSIMEK DLTYSVVKRH LLVIQLLIV CFLPYSIFKP IFYVVLHQRDN CQQLNYLIET KNILTCLASA RSSTDPIEL LLDKTFKKTL YNLFTKSNSA HMQSYG</p>

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	Species Name
1	127	5-HT1A Receptor	NM_000524	atggatgtgc tcagccctgg tcagggaac aacaccacat caccaccggc tccctttgag accggcgga acactactgg tatctccgac gtgaccgtac gctaccaagt gatcacctct ctgctgtgg gacgtctcat ctctctcgcg gtgctgggca atgctgtcgt ggtggctgc atcgccctgg agcgctccct gcagaaacgt gccaatatc ttattggctc ttggcggtc accgacctca tgggtgctgt gttggtgctg cccatggcgg cgtgtatca ggtgctcaac aagtggacac tgggccaggt aacctgcgac ctgtttcatcg cctcgaagt gctgtgctgc acctcatcca tcttgacct gtgcgccatc gcgctggaca ggtactgggc catcacggac cccatcgact acgtgaacaa gaggacgccc cgcccgctgt cgctcatctc gctcacttgg cttattggct tctcatctc tatcccgccc atcctgggct ggcgacccc ggaagaccgc tgggacccc agcgatgcac cattagcaag gatcatggct acatatata ttccaccttt ggagctttct acatcccgt gctgctcatg ctggttctct atgggcgcat attccgagct gcgcgttcc gcatccgcaa gacgtcaaa aaggtggaga agaccggagc ggaacaccgc catggagcat ctcccgcccc gcagcccaag aagagtgtga atggagagtc ggggagcagg aactggagc tgggctgga gagcaagct gggggtgctc tgtgcgcaa tggcgcggtg aggcaaggtg acgatggcg cgccctggag gtgatcgagg tgcaccgagt gggcaactcc aaagagcact tgcctctgcc cagcaggtct ggtcctaccc ctgtgcccc cgctctttc gagagaaaa atgagcgcaa cgccgagcg aagcgcaaga tggccctggc ccgagagagg aagacagtga agacgctgg catcatcatg ggcaccttca tectctgtc gctgccccctc tctatcgtgg ctctgttctt gcccttctgc gggagcagct gccacatgcc caccctgttg ggcgccataa tcaattggct gggctactcc aactctctgc ttaacccccg catttacgca tacttcaaca aggactttca aaacgcgttt aagaagatca ttaagtgtaa cttctgccgc cagtga	A	Homo sapiens
2	127	5-HT1A Receptor	NP_000515.1	MDVLSFGQGN NTTSPAPFE TGGNTTGISD VTVSYQVITS LLLGTLIFCA VLGNACVWAA IALERSLQNV ANYLIGSLAV TDLNVSIVLV PMAALYQVLN KWTLGQVTC LFTALDVLCC TSSILHLCAI ALDRYWAITD PIDVVKRTP RPRALISLTW LIGFLISIPP ILGWRTPEDR SDPDACTISK DHGYTIYSTF GAFYIPLLLM LVLYGRIFRA ARFRIRKTVK KVEGTGADTR HGASAPAPQPK KSVNGESGR NWRLGVESKA GGALCANGAV RQDDGALE VIEVHRVGN KHLPLPSEA GPTPCAPASF ERKNRNEA KRMALARER KTVKTLGIIM GTFILCWLPF FIVALVLPFC ESSCHMPTLL GAINWLGYNS NSLNPVIYA YFNKDFQNAF KKIICNFCR Q	P	Homo sapiens
3	128	5-HT1B Receptor	NM_000863	atggaggaaac cgggtgctca gtgcgctcca ccgcgcggcg cgggctccga gacctgggtt cctcaagcca acttatctct tgcctccctc caaactgca gcgcaagga ctacatttac caggactcca tctccctacc ctggaagta ctgctgggta tgcattggc gctcatcacc ttggccacca cgctctccaa tgcctttgtg attgccacag tgtaccggac ccggaactg cacaccccg ctaactacct gatgcctct ctggcggtca ccgacctgct tgtgtccatc ctggtgatgc ccacagcac catgtacact gtccacggcg cctggacact gggccagggtg gctctgtgact tctggtgtgc gtggacatc actgtgtgca ctgctccat cctgcacctc tgtgtcatcg cctgggaccg ctactgggac atcagtgagc cgtggagta ctcagctaaa aggaactcca agaggggcgcg ggtcatgatc gcgtgtgtgt ggggtctctc catctctatc	A	Homo sapiens

Homo
sapiens

P

NP_000854.1

MEEPGAQCAP

5-HT1B

Receptor

128

4

tcgctgccgc ccttctctg gcgtcaggct aaggccgaag aggaggtgc ggaatgcgtg
gtgaacacg accacatct ctacacggtc tactccacg tgggtgcttt ctacttcccc
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aaacagacgc ccaacaggac cgtctctggt caactctatt aactcgccg tcccagcgt gccagcgaa
cccgggtcca cgtctctggt gaaccaagtc aaagtcgag tctccgacgc cctgctggaa
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cataaactga tacgttttaa gtgcacaagt tga
LATTLSNAFV IATVYTRKL HPANLYLIAS LAVTDLVSI LVMPISMTYT VTGRWTLGQV
VCDFWLSSDI TCCTASILHL CVIALDRYWA ITDAVEYSAK RPKRAAVMI ALWVFSISI
SLPFFFWROA KAESEVSEC VNTDHILYTV YSTVGAFYFP TLLIALLYGR IYVEARSRL
KQTPNRTGKR LTRAQLITDS PGSTSSVTSI NSRVPDVPSE SGSPVYVNVQ KVRVSDALLE
KKKILMAARER KATKTLGIIL GAFIVCWLPF FIISLVMPIC KDACWFHLAI FDFFTWLGYL
NSLINPIIYT MSNEDFKQAF HKLIRFKCTS
agccaaatgt gtggaggtct gtgggaagag agagccacct agcatgtccc cactgaacca A
gtcagcagaa ggccttcccc agtagccctc caacagatcc ctgaatgcc cagaaacctc
agaggcttgg gatcccgga cctcccgga gctcaagatc tcccttgccg tggctcttc
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MSPLNQSAEG LPQASNRSL NATTSEAWD PRTIQAALKIS LAVLSVITL AFVLSNAFVL P
TTTILTRKLH TPANLYIGSL ATTDLLVSI VMISIAITI THTWNFGQIL CDWLSSDIT
CCTASILHLC VIALDRYWA TDALEYSKRR TAGHAATMIA IVWALSICIS IPPLFWROAK

Homo
sapiens

A

NM_000864

5-HT1D

Receptor

129

5

Homo
sapiens

P

NP_000855.1

5-HT1D

Receptor

129

6

7	130	5-HT1E Receptor	NM_000865	<p> AQEEMSDCLV NTSQISYTIY STCGAFYIPS VLLIILYGR IYRAARNRIIL PPSLYGKRFT TAHLITGSAG SSLCSLNSSL HEGHSHSAGS PLFFNHVKIK LADSALERKR ISAARERKAT KILGIILGAF IICWLPFFV SILVLPICRDS CMWHPALFDE FTWLGYLNSL INPIIYTVFN EEFRAQAFQKI VPERKAS atcgaatgtt gagagaagca gtgctctgat ccagctcagg agaaaaagga gcggggttcgcg A agtgagactt ctggagccag ctggacgtgc cgggtttgcc agtcgggcgc ggctgcacgc accgtccaca agagtctcag tcgcccagtc tggaagtgcag cagcacagtc tcacctcatt gcaacctcgc cctcccgggt tcgcgggttc tcgcctcag ctctoctagta gctgggattg caggcactca caaccatgcc cggctaattt ttggaatttt tagtggagac gggattttcac catgttgccc atgtctgtct tgaacccccg acctcggtat attgcggcgc ctgcggcctcc caaagtgtg gaattacagg cgaaccttca ctcaagaaga atgctgtggc ccttcccttt accaacagaa aatggaacac aagagaccac atagctgaag aaataaccaa cagcttctcc gtgagaacc ttcgaggcta catagttttc agccaaagga acatcacaaa cgtaccaca gaggccagca acagtgtaga ctgaacaag ggaacatga agatgctcat ttgcatgact ctgggtggtca tggctataag acccaagacc atcactgaga agatgctcat gctgtatcat ggtatttggc accaccaaga tcaccacct caccagtgtg ctgaacttgg ctgtgatcat ggtatttggc accaccaaga agctccacca gcttgccaac tacctaattc gtctctggc cgtgacggac ctctggtgg cagtgctcgt catgccccg agcatcatct acattgtcat ggatcgctgc agcttgggt acctctctg tgagtggtg ctgagtggtg acatgacctg ctgacacctg tccatctcc acctctgtg cattgccctg gacagtgact gggccatcac caatgctatt gaatacgcca ggaagaggac ggccaagagg gcgcgctga tgatctctac cgtctggacc atctccattt tcattccat gccctctctg ttctggagaa gccacggcgc cctaagccct cccctagtc agtgcacct ccagcacgac catgttatct attaccggat ttaccacgcg gccaaagacc atatccctt gactttgata ctgattctct attaccggat ttaccacgcg gccaaagacc ttaccagaa aaggggatca agtcggcact taagcaacag aagcacagat agcagaatt cttttgcaa tgtaaaactt acacagactt tctgtgtgtc tgacttctcc acctcagacc ctaccacaga gtttgaaaag ttccatgcct ccactcaggt ccccccctc gacaatgac tagatcacc aggagacgt cagcagatct ctgacaccag ggaacggaag gcagcacgca tccctggggt gattctgggt gcattcattt tatctgtgtc gccatttttc atcaaaagt tgattgtggg tctgagcatc tacaccgtgt cctcggaagt ggcgacttt ctgacgtggc tcggttatgt gaattctctg atcaacctc tgctctatc gagttttaat gaagacttta agctggcttt taaaaagctc attagatgc gagagcatc ttgactgta aaagctaaa aggcagact tttccagag cctcatgagt ggatgggggt aagggtgca acttattaat tcttgaacat acttggttca ctagagtttg taagtatgt tggctgtgt tcttgtttg ttgtgtttgt ttgtctgtt ttgttgagg attgtattt ggcgtgctgt tttctacctc tggctctatc tgtgatacat aattcaaat aaacattatc atcaaaaaa aaaaaaaa aaaaaaaa </p>	Homo sapiens
8	130	5-HT1E Receptor	NP_000856.1	<p> SMAIRPKTIT EKMLICMTLV VITLTLLN LAVIMAIGTT KKLHOPANYL P ICSLAVTDLL VAVLVMPLSI IYIVMDRWKL GYFLCEWLS VDMTCCTCSI LHLCVIALDR YWAITNAIEY ARKRTAKRAA LMILTWTIS IFISMPFLW RSHRRLSPPP SQCTIQHDHV IYTIYSTLGA FYIPLTLILI LYRIYHAAK SLYQKRGSSR HLSNRSTDSQ NSFASCKLTQ </p>	Homo sapiens

9	131	5-HT1F Receptor	NM_000866	<p>TFCVSDFTS DPTTEFEKFH ASIRIPPFDN DLDHPGERQQ ISSSTRERKAA RILGLILGAF ILSWLPFFIK ELIVGLSIYT VSSEVADFLT WLGYVNSLIN PLYTSENED FKLAFFKKLIR CREHT</p> <p>atggatttct taaattcatc tgaatcaaac ttgacctcag aggaactgtt aaacagaatg A ccatccaaaa ttctgtgtgc cctcaactcg tctgggcttg cactgatgac aacaactatc aactcccttg tgatcgctgc aattatttg acccggaagc tgcaccatcc agccaattat ttaatttgtt ccttgctcgt cacagatttt cctgtgctg tctgtgtgat gcccttcagc atgtgtata ttgtgagaga gagctggatt atggggcaag tggctcttga catttggctg agtgttgaca ttacctgctg cacgtgctcc atcttgcatc tctcagctat agctttggat cggtatcgag caatcacaga tgcgtgtgag tatgccagga aaaggactcc aaagcatgct ggcattatga ttacaatagt ttggattata tctgttttta tctctatgcc tctctatcc tggaggcacc aaggaactag cagagatgat gaatgcacca tcaagcacga ccacattgtt tccaccattt actcaacatt tggagcttcc tacatccccc tggcatitgat ttgatcctt tactacaaaa tatatagagc agcaagagaca ttataccaca agagacaagc aagtaggatt gcaaggagg agtgaatgg ccaagtcctt ttggagagtg tggagaaaag cactaaaatca gtttccacat cctatgtact agaaaagtct ttatctgacc catcaacaga cttgataaa attcatagca cagtgaaga tctcaggtct gaattcaagc atgagaaatc ttggagaagg caaaagatct caggtacaag agaacggaaa cagccacta cctgggatt aatcttgggt gcatttgtaa tatgttggct tcttttttt gtaaaagaat tagttgttaa tgcctgtgac aaatgtaaaa ttctgaaga aatgtccaat tttttggcat ggcttgggta tctcaattcc cttataaatc cactgattta cacaatcttt aatgaagact tcaagaaagc attccaaaag cttgtgcgat gtcgatgtta g</p>	Homo sapiens
10	131	5-HT1F Receptor	NP_000857.1	<p>MDFLNSSDQN LTSEELNRM PSKIIVSLTL SGLALMTTI NSLVIAAIIV TRKLHPANY P LICSIAVTDF LVAIVMPFS IVYIVRESWI MGQVVCDIWL SVDITCCTCS ILHLSAIALD RYRAITDAVE YARKTPKHA GIMITIVWII SVFISMPPLF WRHQGTSRDD ECILKHDHIV STIYSTFGAF YIPLALIL YKIYRAKT LYHKRQASRI AKEEVNGQVL LESEKSTKS VSTSYVLEKS LSDPSTDFDK IHSTVRSLSR EFKHEKSWRR QKISGTREK AATTIGLILG AFVICWLPFF VKELVNVCD KCKISEMSN FLAWLGYLNS LINPLIYTIF NEDFKKAFQK LVRRC</p>	Homo sapiens
11	132	5-HT2A Receptor	NM_000621	<p>gaattcgggt gagccagctc cgggagaaca gcatgtacac cagcctcagt gttacagagt A gtgggtacat caagtggaat ggtgagcaga aactataacc tgttagtcct tctacacctc atctgctaca agttctggct tagacatgga tattctttgt gaagaaaaata cttctttgag ctcaactacg aactccctaa tgcaattaaa tgatgacacc aggccttaca gtaatgactt taactctgga gaagctaaaca cttctgatgc atttaactgg acagtgcagt ctgaaaaatcg aaccacctt tctgtgaag ggtgcctctc accgtgtgtg ctcctctac ttcacttcca ggaaaaaac tggctgtctt tactgacagc cgtagtattt attctaacta ttgctggaaa catactcgtc atcatggcag tgcctcctaga gaaaaagctg cagaatgcca ccaactattt cctgatgtca cttgcccatag ctgatagtct cttgggtttc cttgcatgc ccgtgtccat gttaaccatc ctgtatgggt accgtggccc tctgcgagc aagctttgtg cagctgtgat ttacctggac gtgctcttct ccacggctc catcatgac tctgcgcca tctcgttgga ccgctacgtc gccatccaga atcccattcca ccacagccgc ttcactcca gaactaaggc</p>	Homo sapiens

12	NP_000612.1	5-HT2A Receptor	MDILCEENTS LSSTNSLMQ LNDTRLYSN DENSGEANTS DAFNWTVDSE NRTNLSCEGC P	LSPSCLSLH LQERNWSALL TAVVILITIA GNILVIMAVS LERKIQNATN YFLMSLAID	Homo sapiens
			attctgaaa atcattgctg ttgggaccat atcagtaggt atatccatgc caataccagt ctttgggcta caggacgatt cgaaggtctt taaggagggt agttgcttac tcgccgatga taactttgtc ctgateggct cttttgtgtc atttttcatt cccctaacca tcaatggtgat cactacttt ctactatca agtcactcca gaaagaagct actttgtgtg taagtgtatc tggcacacgg gccaaattag tccataggga gccaggtgtc tacacaggca ggaggactat aaagctcttc cagcgggtcga tccataggga ccaaggtgtc ggcacgtctc tcttcctgtt gcagtcctac agcaatgagc aaaaggcatg caaggtgtgt ggcacgtctc tcttcctgtt tgggtgatg tgggtgacct tcttcacac caacatcatg gccgtcatct gcaaaagatc ctgcaatgag gatgtcattg gggccctgct caatgtgttt gtttggatcg gttatctctc ttacagcagtc aaccactag tctacacact gttcaacaag acctataggt cagccttttc acggtatatt cagtgctcagt acaaggaaa caaaaacca ttgcagttaa ttttagtgaa cacaataccg gcttggcctt acaagtcctag ccaactcaa atgggacaaa aaaagaattc aaagcaagat gccaaagaca cagataatga ctgctcaatg gttgctctag gaaagcagca ttctgaagag gcttctaaag acaatagcga cggagtgaaat gaaaagggtga gctgtgtgtg ataggctagt tggcgtggca actgtggaag gcacactgag caagttttca cctatctgga aaaaaaaa atgagatttg aaaaaattag acaagtcctag tggaaaccaac gatcatatct gtatgcctca ttttattctg tcaatgaaa gcggggttca atgctacaaa atgtgtgctt ggaaaaatgt ctgacagcat ttacgtgtg agctttctga tacttattta taacattgta aatgatatgt ctttaaaaatg attcactttt attgtataat tatgaagccc taagtaaatc taaattaact tctattttca agtggaacc ttgctgctat gctgttctt gatgacatgg gattgagttg gttacctatt gcgtaaaata aaaaatagcta taaatagtg aaaaatttatt gaataaatg gcctcttaaa attatcttt aaaaacttact atggtatatata ttttgaagg agaaaaaaa aaagccacta aggtcagtg tataaaatct gtattgctaa gataattaaa tgaaataact gacaacattt tctatagata ccattttgaa atttcacaa ggttgcgtggc atttgctgca ttcaagtta attctcagaa gtgaaaaaga cttcaaatgt tattcaataa ctattgctgc ttctcttct acttctgtg ctttactctg aatttccagt gtggtcttgt ttaatatattg ttctcttagg taaactagca aaagatgat ttaacattac caaatgcctt tctagcaatt gcttctctaa aacagcacta tcgaggtatt tggtaacttg ctgtgaaatg actgcatcat gcatgcactc ttttgagcag taaatgtata ttgatgtaac tgtgtcagga ttgaggatga actcaggttt ccggtactg acagtggtag agtccttaga catctctgta aaaagcaggt gactttccta tgacactcat caggtaaaact gatgctttca gatccatcgg ttatactat ttattaaaa cactctgctt ggttccacaa tcatctattg agtgatcatt tatgtgtgaa gcaaatttct agatatgaga aatataaaaa taattaaaaa aaaatccttg ccttcaaacg aaatggctcg gccaggcacg gaggtcctg catgtaatcc tagcactttg ggaggctgag atgggaggt cacttgaggc caagagtttg agaccaacct gggtaacaaa gtgagacctc cctgtctcta caaaaaaat caaaaaatta tctgactcct gtggcacaca actgtggtcc cagctacagg ggaggctgag agccaagat cacttgagcc cagaagctca aggtgcagat gagccaagt cacaccactg ccatttctc ctgggcaaca gagtgaagcc ctatcacccc gaattc		

13	133	5-HT2B Receptor	NM_000867	<p>MLLGLMMPV SMLTILGYR WPLPSKLCV WYLDVLFST ASIMHLCAIS LDYVAIQNP IHHSRENSRT KAFKIIIAV TISVGISMPI PVFGLQDDSK VFKEGSCLLA DDNFVLIGSF VSFFIPLTIM VITYFLTIS LQKEATLCVS DLGTRAKLAS FSFLPQSSLS SEKLQFORSIH REPGSYTGRR TMSISNEQK ACKVLGIVFF LFVVMWCFF ITNIMAVICK ESCNEDVIGA LLNVEWIGY LSSAVNPLVY TLFNKTYRSA FSRYIQCYK ENKPLQLIL VNTIPALAYK SSQLQMGQKK NSKQDAKTD NDCSMVALGK QHSEAEKDN SDGVNEKVC V</p> <p>tactaacat gctgaccat gttcggaacg ggattgaatc acagaaaaac agcaaatggc A tctctcttac agagtgtctg aacttcaag cacaattcct gagcacattt tgcagagcac ctttgtttcac gttatctctt ctaactggtc tggattacag acagaaatcaa taccagagga aatgaaacag attgttgagg aacagggaat taaactgcac tgggcagctc tctgtatact catggtgata ataccacaa ttggtggaaa tacccttgtt attctggctg tttcactgga gaagaagctg cagtatgcta tcaattactt tcaatgtcc ttggcgggtg ctgatttgcct ggttggttg ttgtgatgc caattgccct ctggacaata atggttgagg ctatgtggcc ctccaccat gttctatgct ctgctgtgtt atttcttgac gttctctttt caaccgcac catcatgcat ctctgtgcca ttccagtggg tegtacata gcaatcaaaa agcaaatcca ggccaatcaa tataactcac gggctacagc attcatcaag attacagtgg tgtggttaat ttcaataggc attgccattc cagtcctcat taaagggata gagactgatg tggacaaccc aacaatatc acttgtgtgc tgacaaaagg acgtttttgc gatttcacgc tctttggctc actggctgcc tcttccacac ctcttgcaat tatgattgtc actacttctc tcaatatcca tgctttacag aagaaggctt acttagtcaa aacaagcca cctcaacgcc taacatggtt gactgtgtct acagttttcc aagggtatga aacacctgc tegtacccg aaaaggtggc aatgctggat ggttctcgaa aggacaaggc tctgcccac tcaagtgatg aacacttat gcgaagaaca tccacaattg gaaaaaagtc agtgcagacc atttccaaac aacagagagc ctcaaggctc ctagggttg ttgttttctt ctgtttgctt atgtgtgtgc ccttctttat tacaatatata acttagttt tatgtgattc ctgtaacca aactactctc aatgtctcct ggagatatatt gtgtggatag gctatgttct ctcaaggatg aactctttgg tctacacct cttcaataag acatttcggg atgcatttgg ccgatatatc acctgcaatt accggggccac aaagtcagta aaaactctca gaaacgctc cagtaagatc tacttccgga atccaatggc agagaactct aagtttttca agaaacatgg aattcgaaat gggattaaac ctgccatgta ccagagtcca atgaggctcc gaagtcaac cattcagctt tcatcaatca tctactaga tacgcttctc ctactgaaa atgaaggatga caaactgaa gagcaagtta gttatgtata gcgaactgg cagttgtcat caacataat gatgagtaag atgatgaatg agatgtataat tgccccagaa tatattatat aaagaatttt atgtcatata tcaaatcatc tctttaacct aagatgtaag tattaagaat atctaatttt cctaatttgg acaagattat tccatgagga aaataatttt atatagctac aaatgaaaac aatccagcac tctggttaaa ttttaaggta ttcgaatgaa ataaagtcaa atcaataaat ttcaggctttt aaaaaaaaaa</p>	Homo sapiens
14	133	5-HT2B Receptor	NP_000858.1	<p>MALSYRVSEL QSTIEHILQ STFHVHSSN WSGLTESIP EEMKQIVEEQ GNKLHWAALL P ILMVIPTIG GNTLVILAVS LEKLIQYATN YFLMSIADV LLVGLFWMPI ALTIMFEAM WPLPLVLCPA WLFLDLVLFST ASIMHLCAIS VDRYIAKKP IQANQYNSRA TAFIKITVWV LISIGIAIPV PIKGIETDND NPNNITCVLT KERFGDFMLF GSLAAFFFTPL AIMIVTYFLT IHALQKKAYL VKNKPPQRLT WLTVSTVFOR DETPCSSPEK VAMLDGSRKD KALPNSGDET</p>	Homo sapiens

[illegible]

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16	134	5-HT2C Receptor	NP_000859.1	ctaatctctg tatgttatcc actacaggtt ttatgagact tcctattaat ttattaaatt tattaaatgt tgaataaaaa aaaaaaaaaa aaaaa MVNLRNAVHS FLVHLIGLLV WQCDISVSPV AAIVTDIENT SDGGRFKFPD GVQWNPALSI P VIIIMTIGG NILVIMAVSM EKHLNATNY DRYVAIRNPI EHSRENSRTRK AIMKIAIWA PLPRYLCPVW ISLDVLFSTA SIMHLCAISL DMFVLRNPI EHSRENSRTRK AIMKIAIWA ISIGSVPIV VIGLRDEKV FVNNTTCVLN DNFVLRNPI EHSRENSRTRK AIMKIAIWA LRRQALMLJH GHTEPPGLS LDFLKCKRN TAEENSANP NQDNARRRK KKERRPRGTM QAINNERKAS KVLGIVFFVF LIMWCPEFIT NILSVLCEKS CNQKIMEKLL NVFVWIGYVC SGINPIVYTL FNKIYRRAFS NYLRCNYKVE KKPPVRQIPR VAATALS GRE LNVNIYRHTN EPVIEKASDN EPGIEMQVEN LELPWNPSV VSEISSV	Homo sapiens
17	136	5-HT4 Receptor	NM_000870	cggtgcttat ttctgtaat ggacaaactt gatgctaagt tgagttctga ggagggtttc A gggtcagtggt agaaggtggt gctgctcagc ttctctcga cggttatcct gatggccatc ttggggaacc tgctggtgat ggtggtctgt tgctgggaca ggagctcag gaaaaataaa acaaattatt tcatgtgatc tcttgctttt gctggtcaga tgggttcggt gctggtgatg ccctttggtg ccattgagct ggttcaagac atctggattt atggggaggt gttttgtctt gttcggacat ctctggacgt cctgctcaca acggcatcga tttttcacct gtgctgcatt tctctggata ggtattacgc catctgctgc cagcctttgg tctataggaa caagatgacc ctctgcgca tgcattaat gctgggagc tggctgggta tccccacgtt tatttctttt ctccctataa tgcaaggtct gaataacatt ggcatataat atttgataga aaagaggaaag ttcaaccaga acttaactc tagtactgt gcttctcga tgggtctgga ctattaccgc acctgctctg tgggtgctt ctacatccca ttctctcga tgggtctgga ctattaccgc atctatgtca cagtaagga gcatgcccc cagcatagca ctcacgcat gaggacagag tcctccgaga gcaggcctca gtcggcagac cagcatagca ctcacgcat gaggacagag accaagcag ccaagaccct gtgcatcctc atgggtgctc tctgctctg ctgggcacca ttctttgtca ccaatattgt ggtatcttct atagactaca ctgctcctg gcagggtggtg actgctttcc tctggctcgg ctatatcaat tccgggttga accttttct ctacgccttc ttgaataagt cttttagacg tgccttctc atcatcctc gctgtgatga tgagcgctac cgagacatt ccattctggg ccagactgtc cctgttcaa ccacaacct taatggatcc acacatgtac taagggtatg agtggaggtg ggtggccagt gggagagtca gtgtcacccg ccagcaactt ctcctttggt ggtgctcag cccagtaca cttaggcccc tgggacaaatg accagaaga cagccatgcc tccgaaagag ggcaggtcc taagctgctg cttgtgctg actgcacccg gcattctctt cactgagggc ttcccgctcg ccagtgcagg aaccgggtgc tcgctggg	Homo sapiens
18	136	5-HT4 Receptor	NP_000861.1	MDKLDANVSS EEEGSEVEKV VLTFLSTVI LMAILGNLLV MVAVCWDRQL RKIKTNYFIV P SLAFADLLVS VLVNPFGAIE LVQDIWIYGE VFCLVRTSLD VLLTASIFH LCCISLDRYY AICQPLVYR NRTPLRIAL MLGCGWVPT FISTLPIMOG WNNIGIIDLI EKPKNQNSN STYCVFMVWK PYAITCSWA FYIFELLMVL AYRIYVYVAK EHAHQIQMLQ RAGASSESRP QSDQHSRTHR MRTEPKAART LCIMGCFCL CWAPFFVTNI VDPFIDYTVF GQVWTAFLWL GYINSGLNPF LYAFNLKSF RFLIILCCD DERYRRPSIL GQTVPCSTTT INGSTHVLRL AVECGGQWES QCHPATSPL VAAQPSDT	Homo sapiens
19	138	5-HT6	NM_000871	cccggagagcg cccattcacc cccctcacc accctcccg gttccactt ccccgactc A	Homo

Receptor	NP_000862.1	5-HT6 Receptor	138	20	sapiens	Homo sapiens
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					ccacccagg gagcccatcc gacctctgct tgacttcccg ccgcttctct caggggccctc	ccacccagg gagcccatcc gacctctgct tgacttcccg ccgcttctct caggggccctc
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					MPPEGPTAN STRAWGAGPP SAPGSGWVA AALCVVIALT AAANSLIAL ICTQPALRNT P	MPPEGPTAN STRAWGAGPP SAPGSGWVA AALCVVIALT AAANSLIAL ICTQPALRNT P
					SNFFLVSLFT SLMVGLVVM PPMNLALYG RWVLARGLCL LWTAFDMVCC SASILNLCIL	SNFFLVSLFT SLMVGLVVM PPMNLALYG RWVLARGLCL LWTAFDMVCC SASILNLCIL
					SLDRYLLILS PLRYKLRTMP LRALALVIGA WSLAALASFL PLLIGWHELG HARPPVPGQC	SLDRYLLILS PLRYKLRTMP LRALALVIGA WSLAALASFL PLLIGWHELG HARPPVPGQC
					RLLASLPFVL VASGLTFFLP SGAICFTYCR ILLAARKQAV QVASILTGMA SQASETLQVP	RLLASLPFVL VASGLTFFLP SGAICFTYCR ILLAARKQAV QVASILTGMA SQASETLQVP
					RTPRPGVESA DSRRLATKHS RKALKASLTL GILLGFFVT WLPFFVANIV QAVDCISPG	RTPRPGVESA DSRRLATKHS RKALKASLTL GILLGFFVT WLPFFVANIV QAVDCISPG
					LFDVLTWLG Y CNSTNPIIY PLFMRDEKRA LGRELPCPRC PRERQASIAS PSLTSHSGP	LFDVLTWLG Y CNSTNPIIY PLFMRDEKRA LGRELPCPRC PRERQASIAS PSLTSHSGP
					RPGLSLQQVL PLPLPDSDS DSDAGSGGSS GLRLTAQLLL PGEATQDPPL PTRAAAAVNF	RPGLSLQQVL PLPLPDSDS DSDAGSGGSS GLRLTAQLLL PGEATQDPPL PTRAAAAVNF
					FNIDPAEPEL RPHPLGIPTN	FNIDPAEPEL RPHPLGIPTN

21	139	5-HT7 Receptor	NM_000872	coatgggag cggcacacgg cggcgcatg atggacgtta acagcagcgg ccgcccggac A ctctacggg accctcgtc tttccttctg ccagaaagtgg ggcgcgggct gcccagactg agccccagc gtggcgccga cccggtcgcg ggctcctggg cgcgcacact gctgagcgg gtgacagcca gcccgcgcc cactgggac ggcgccccgg acaatgcctc cggctgtggg gaacagatca actacggcag agtcagagaa gtgtgtgact gctccatcct gacgtctc acgctgctga cgatcgcggg caactgcctg gtgggtgatc ccggtgtgctt cgtcaagaag ctccgccgc cctccaacta cctgacgtg tccctggcgc tggccgacct ctcgggtggct gtggcggtca tgccttcgt cagcgtcacc gacctcatg ggggcaagtg gatctttgga cactttttct gtaatgtctt catcgccatg gacgtcatgt gctgcacggc ctcgacatg acctgtgctg tgatcagcat tgacaggtag catggcgaag atgattctct ccgtctggct tctctcggc gtgagggcaga atgggaaatg catggcgaag gtgtgaaag tttcgagact cctcaagcat tccatcacct taactccact ctttgatgg gctcagaatg taaatgatga taagtgtgc ttgatcagcc aggactttgg ctatacagatt tactctaccg cagtggcatt ttatatcccc atgtccgtca tgcctttcat gtactaccag atttacaagg ctgccaggaa gagtgtgccc aaacacaagt ttcctggctt cctcagagt gaggcagaca gcgatcctgc cctgaatggc atagtgaagc tccagaagga ggtggaagag tgtgcaaac tttcgagact cctcaagcat gaaaggaaaa acatctccat ctttaagcga gaacagaaag cagccaccac cctggggatc atcgtcgggg cctttaccgt gtgctggctg ccatctttcc tctctcgc agccagaccc ttcatctgtg gcacttctct cagctgcac ccaattgtgg tggagaggac atttctgtg ctaggctatg caaactctct cattaacct ttatatatg ccttcttcaa cggggacctg aggaccacct atcgcagctg gctccagtc cagtagcga atatacaacg gaagctctca gctgcaggca tgcataagc cctgaagctt gctgagaggc cagagagacc tgagtttgtg ctacaaaaatg ctgactactg tagaaaaaaa ggtcatgatt catgattgaa agcagaacaa tggag	Homo sapiens
22	139	5-HT7 Receptor	NP_000863.1	MDVNSSGRP DLXHLRSFL LPEVGRGLPD LSPDGGADPV AGSWAPHLLS EVTASPAPTW P DAPPDNASGC GEQNYGRVE KVVIGSILTL ITLTIAGNC LVVISVCFVK KLRQPSNYLI VSLALADLSV AVAVMPFVSU TDLIGGKWIF GHFCNVFIA MDVMCCTASI MTLCVISIDR YLGITRPLTY PVRONGKMA KMILSWLLS ASITLPLPLFG WAQNVNDDKV CLISQDFGYT IYSTAVAFYI PMSVLMFYI QIYKAARKSA AKHFPFGR VERDSVIAIN GIVKLQKEVE ECANLSRLK HERKNISIFK REQKAATTIG IIVGAFTVCW LPFFLLSTAR PFICGTSCSC IPLMVERTEL WLGYANSLIN PFIYAFENRD LRITYRSLLO CQYRNINRKL SAAGWHEALK LAERPERPEF VLQWADYCRK KGHDS atgagtgtca gaagtgtgaa ggtgtcctgt tctgaatccc agagcctcct ctcctctgt A gaggtcggca ggtgaggaag ggtttaacct cactggaagg aatccttggg gctagcggct gctgaaggcg tcgaggtgtg ggggcaactg gacagaacag tcaggcagcc gggagctctg ccagctttgg tgaccttggg ccgggttggg agcgtgcgg cgggagcccg aggactatga gctgcgcgc gttgtccaga gcccagccca gccctacgcg cgcggccccg agctctgttc cctggaactt tgggcaactg cctgtggacc cctgcgggcc agcaggcagg atggtgcttg cctgtgccc cttgtgtccc gtctgtgat gtctcagcc tgtgccccg atgcccctt ccatctcagc tttccaggcc gcctacatcg gctcagaggt gctcatgcc ctggtctctg tgccccggaa cgtgtgtgtg atctggcgcg tgaaggtgaa ccaggcgtg cgggatgcca	Homo sapiens
23	272	Adenosine A1 Receptor	NM_000674		Homo sapiens

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Homo

P

LAVADVAVGA

RDATFCFIVS

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LVSFVGNVLV

AYIGIEVLIA

MPPSISAFQA

NP_000665.1

Adenosine A1

272

24

Receptor	25	273	Adenosine A2a Receptor	NM_000675	Sequence	Species
					LVIPLAILIN IGPQTYFHTC IMVACFVLIL TQSSILALLA IAVDRYLRVK IPLRYKMVVT PRRAAVAIAG CWILSFVVGL TPMFGWNNLS AVERAWANG SMGEPVIKCE FEKVISMEYM VYFNFFVWVL PPLLIMWLIY LEVFLIRKQ LNKVSASSG DPQKYKGKEL KIAKSLALIL FLFALSWLPL HILNCITLFC PSCHKPSILT YIAIFLTHGN SAMNPVVYAF RIQFRVTFEL KIWDHFERCQ PAPPIDELP EERPDD ttgtcagggtg cctcaggaaac cctgaagctg ggctgagcca tgatgctgct gccagaaccc A ctgcagaggg cctggtttca ggagactcag agtcctctgt gaaaagccc ttggagagcg ccccgagcag gctgcaactg gctcctgtga ggaagggtct cagggtctgt ggcctcctcg cctgggcccgg gctgggagcc aggcggggcg ctgggctgca gcaatggacc gtgagctggc ccagcccgcg tccgtgctga gctgacctgt cgtctgtggc catgcccatc atgggctcct cgggtgtacat cagcgtggag ctggccattg ctgtgctggc catcctgggc aatgtgtgtg ttgtctgggc cgtgtggctc aacagcaacc tgcagaacgt caccaaactac ttgtgtgtgt cactggcggc ggccgacatc gcagtgggtg tgctcgccat cccctttggc atcaccatca gcaccgggtt ctgcgctgcc tgccacggct gctcttcat tgctgttc gtccctggctc tcacgcagag ctccatcttc agtctcctgg ccacgcctac tgaccgctac attgccatcc gcataccgct ccggtacaat ggcttggtga ccggcacag ggctaagggc atcattggca tctgctgggt gctgtcgttt gccatcggtc tgactcccat gctagggttg acaaatcgcg gtacgccaa ggagggcaag aaccactccc agggctcgg ggaggggcaa gtggcctgtc tctttgagga tgtgttcccc atgaactaca tgggtgactt caacttcttt gctgtgtgc tgggtcccc gctgctcatg ctgggtgtct atttgcggat ctctctggcg gcgcgacgac agctgaagca gatggagagc cagcctctgc cgggggagcg ggacgggtcc acactgcaga aggagggtcca tgcgtccaag tcactggcca tcaattgtgg gctctttggc ctctgtgtgc tgccccaca catcatcaac tgccttcaatt tcttctgccc cgactgcgc cagccccctc tctggctcat gtacctggcc atcgtcctct ccacaccaa ttcggtgtgt aatcccccca tctacgcta cegtatccgc gagtccgccc agaactccg caagatcatt cgcagccacg tctgaggca gcaagaacct tcaaggcag ctggcaccag tggccgggtc ttggcagctc atggcagtga cggagagcag gtccagcctcc gtctcaacgg ccaccccgcca ggagtgtggg ccacggcgag tgcctcccc cctgagcggga ggcccaatgg ctatgccctg gggtgtgtga gtggagggag tgcaccaagag tccagggga acacgggctt ccagacgtg gagctcctta gccatgact caaggagtg tgcacagag cccctggcct agatgacccc ctggcccagg atggagcagg agtgcctga tgattcatgg agtttgccc tcttaaggg aagagagatct ttatctttct ggttggcttg accagtacg tgggagaag agagagagtg ccaggagacc ctgaggggcag cgggttccca ctttggactg agagaaggga gcccaggct ggagcagcat gagggccagc aagaagggtt tgggttctga ggaagcagat gtttcatgct gtgaggcctt gcaccagggt ggggccacag caccagcagc atcttctgt ggacggccca gcoctccact gcagaagcat ctggaagcac cacttctct ccacagagca gcttgggac agcagactgg cctggcccctg agactgggga gtggctccaa tagcctcctg ccaccacac accactctcc ctgactctc ctagggttca ggagctgctg ggccagaggg tgacatttga ctttttcca ggaaaaatgt aagtgtgagg aaacctttt tatbttatta ccttccactc tctggctgct gggtctgccc tgggtcctgc tgctaacctg gcaccagagc ctctggcccgg ggagcctcag gcagtctctct cctgctgtca cagctgacct ccacttctca gtcccagggc catctcttgg	sapiens
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26	Adenosine A2a Receptor	NP_000666.2	273	274	<p> agtgacaaag ctgggataca ggataggag ttgtaacaga gcagtggcag agcatgggccc caggccccag gggagaggtt ggggctggca gggcactggc atgtgctgag tagcgcacag ctaccacagt agaggccttg tctaaactgc tttccttcta aagggaatgt ttttttctga gataaaataa aaacagagcca catcgtgttt taagcttgtc caaatgaaaa aaaaaaaa aaa TVELIAIAVLA ILGNVLVCWA VMNSNLQNV TNYFVVSLLA ADIAVGLAI P PFAITISTGF CAACHGCLFI ACFLVLITQS SIFSLIAIAI DRYIAIRIPL RYNGLVITGR AKGIIAICWV LSPAIGLTPM LGWNNGQPK EGKNSQGC EGQVACLFED VVPMNMYVF NFFACVLVPL LIMLGVLRI FLAARRQLKQ MESQPLPGER ARSTLQKEVH AAKSLAIIVG LFALCWLP LH IINCFTFFCP DCSHAPLWLM YLAIVLSHTN SVNPFYIAY RIREFRQTFR KIIRSHVLKQ QEPFKAAGTS ARVLAHGS D GEQVSLRLNG HPFGVWANGS APHPERRPNG YALGLVSGGS AQESQNTGL PDVELLSHEL KGVCEPPGL DDPLAQDGAG VS gggcaaatthg ttagttatcc gccgccacca agacgcggca cggcgccctgg accggagggg A cccgcgcgg gcgcgaactt tgggctcggg cgagtgggtg gtgctccgcc cagccccgaga cggcgggggc cgggggccc tgggtgccgc ctcttgccgc cggggggggc cgaccctgg gtcccgcca ccagcgccc agccccgagg ctcaagaagc gcaggcgag gcgcggtccc ggcgctatgg ccattgccc cgggtctcac ggggctgcc ctgcgccggc ggccttcgg tagggggcgc cgggggccc atggccgcgc ccatgctgct ggagacacag gacgcgtgt acgtggcgt gaggctggtc atggccgcgc ttctgggtgg gggcaacgtg ctgggtgctg cgcgggtgg gcggcggaac actctgcaga gccccacca ctacttcttg gtgtccctgg ctggggcga cgtggcgtg gggctcttcg ccatccctt tgccatcacc atcagcctgg gctctgcac tgacttctac ggctgctct tctgcctg cttgtgtgct gtgtcacgc agagctccat cttcagcctt ctggccgtgg cagtcgacag atacctggcc atctgtgtcc cgctcaggta taaaagttg gtcacggga cccagacag aggggtcatt gctgtcctct gggctcttg ctttggcatc ggattgactc cattctctgg gtggaacagt aaagacagt ccaccaaca ctgcacagaa cctgggatg gaaccacgaa tgaagctgc tgccttctga agtgtctct tgagaatgtg gtcccatga gctacatggt atatttcaat tcttttgggt gtgttctgccc cccactgctt ataatgctg tgatctacat taagatcttc ctggtggcct gcaggcagct tcagcgcact gactgatgg accactcag gaccacctc cagcgggaga tccatgcagc caagtcactg gccatgattg tgggatttt tgccctgtgc tggttacctg tgcattgctg taactgtgtc actctttcc agccagctca gggtaaaaaat aagcccaagt gggcaatgaa tatggccatt cttctgtcac atgccaattc agtgtcaat cccattgtct atgcttaccg gaaccgagac ttcogctaca ttttccaaa aattatctcc aggtatcttc tctgccaagc agatgtcaag agtgggaatg gtcaggctgg ggtacagcct gctctcgggtg tgggctatg atctaggctc tgcctcttc caggagaaga tacaatcca caagaaacaa agaggacacg gctgggtttc atgtgaaag atagctacac ctcaacagga aatggactgc ctctcttgag cacttccctg gactaccac gtatctagct aatatgtatg tgtcagtagt aggtcccaag gattgacaaa tatattatg atctattcag ctgcttttac tgtgtggatt atgccaacag cttgagtgga ttctaacaga ctcttttgtt tttaaaagtc tgccttggtt atgggtggaaa attactgaaa ctattttact gtgaacacagt gtgaactatt ataatgcaaa tactttttta cttagaggca atgaaaaaat aaagtgtgac tgtactaaaa atg </p>	Homo sapiens
27	Adenosine A2b Receptor	NM_000676	274			Homo sapiens

28	Adenosine A2b Receptor	NP_000667.1	MLETQDALY VALELVIAAL SVAGNVLVCA AVGTANTIQT PTNYFLVSLA AADVAVGLFA P	Homo sapiens
274			IPFAITISLG ECTDFYGCLE LACFVLVLTQ SSIFSLLAVA VDRYLAICVP LRYKSLVTCT RARGVIAVLW VLAFIGIGLTP FLGWSKDSA TNNCTEPWDG TTNESCCLVK CLFENVVPM YMYFNFFGC VLPPLLLIMLV IYKIFLVAC ROLQRTLEMD HSRTTLQREI HAAKSLAMIV GIFALCWLPV HAVNCVTLFQ PAQGNKPKW ANMAILLSH ANSVNPIVY AYNRDRFRT FKIISRYLL QQADVKSNG QAGVQPALGV GL	
275	Adenosine A3 Receptor	NM_000677	atctttgctg caaaggctgg gtatcgctgg tgcacagcaa agcgtcaact cgtgcaagaa A cttagcagga atagttctgg ctaagggttag gaggtgcca ccaaagtctc tttttgttc ctctgcttct cccgtttgcc tctttatcat gagatctttt tgctaagctg gcagaaagat tgcatagtea gtgcttccag ctctgctccc acctgacctc gcactgtcct ctggtccctg aatgaatgaa ctctgatacc caatcttgtc tcgagccttc tctatgccac tcatggctcc tcttctgctc tttccatctt tttgctgaga gttctgagct ctgtacttcc tcttgcccc tctcaacttc tgaacacccc ctgaagaggg ttgcttatct tgatggaact caaaagcca aaaagctgca ggcagaggcg ttgaggacat ctgtttgggg aactaagagc agcagcactt tcagattcag tccatataga gctgtcctac agcattctgg aaacttgagg atgtgcggtg cataaaagggg ctggaagtga cccacctgtg atgagccctt tctaaggaga aggtttcca agagatcacc ccaccagaaa agggtaggaa tgagcaagtt gggaaattta gactgtcact gcacatggac ctctgggaag acgtctggcg agagctaggc ccactggccc tacagacgga tcttgctggc tcacctgtcc ctgtggaggt tccccggga aggcaagatg cccaacaaca gcactgctct gtcaattggc aatgttacct acatcaccat ggaaattttc attggactct ggcccatagt gggcaacgtg ctgtgtcatct gctgtgtcaa gctgaacccc agcctgcaga ccaccacctt ctatttctat gtctctctag ccttggtgta cattgtgtt ggggtgctgg tcatgctttt ggccattggt gtcagcctgg gcatcacaat ccacttctac agctgcctt ttatgacttg cctactgctt atctttacc acgcctccat catgtccttg ctggccatcg ctgtggaccg atacttgcg gtaagctta ccgtcagata caagagggtc accactaca gaagaatatg gctggccctg ggcctttgct ggttggtgtc attcctgggt gattgaccc ccatgtttgg ctggaacatg aaactgacct cagagtacca cagaaatgtc accttccctt catgccaatt tgtttccgtc atgagaatgg actacatggt atacttcagc tctctacot ggattttcat cccctgggtt gtcattgtgg ccatctatct tgacatcttt tacatcattc ggaacaaaact cagtctgaac ttatctaact ccaaaagagc aggtgcattt tatggacggg agttcaagac ggctaaagtc ttgtttctgg tcttttctt gtttgcctg tcatggctgc ctttatctat catcaactgc atcatctact ttaatgggtga ggtaccacag ctgtgctgtg acatgggcat cctgctgtcc catgccaact tgatcctcaa agcctgtgtg gctgcccac aaataaagaa gttcaaggaa acctaccttt tgaatctga agaattctga ttagttatcc atcagagatg cctctgattc ttggacacac agcattgaga tcaacaaaca cttgaggggc tgtatgcctg actctgtctc attgaccttc agattccccca tccactgagg tgggagcacc tccagtgtc ggccaaggga tttttacatc ctgtgattact tcttccctcc ctctattttt ccttgtctct cccaattata tctccccccac tccactactc tcttccctcc ctctattttt tgatatattt ttctctctaa ttcatgtgtt tggaggccctg acctggggac aactgtattt tgatatattt gtctgttttc cttcttccca atagaagaat agtcatgga gctgaaggg tgcctagtgtg acttactgac aaaaggctct atgtgggctg aactgtgtg tgggtggtag tcaatttccat	Homo sapiens

30	275	Adenosine A3 NP_000668.1 Receptor	gccaattgtg aattgagcag agaacctgct ctccgaggat gcttagaaga tgttggggaac agaagaaata aactgagttt aagggggact taaactgctg aattcacctg tggatgtttt tgagtaataa aaagctaata g MPNNSTALS ANVTYITIMEI FIGLCAIVGN VLVICVVKLN PSLQTTTFYF IVSLALADIA P VGVLMPLAI VVSLGITIH F YSCLFMTCLL LIFTHASIMS LLAIAVDRL RVKLTVRYKR VTHRRWLIA LGLCWIVSFL VGLTPMEGN MKLTSEYHRN VTFSCQFVS VMKMDYMYE SFLTWIFIP L VMCAIYLDI FYIIRNKLS NLSNSETGA FYGREFTAK SLFLVLELFA LSWPLSIIN CIIYFNGEVP QLVLYMGILL SHANSMMNPI VYAYKIKKFK ETYLLILKAC VVCHPSDSL TSIEKNSE	Homo sapiens
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	atgaagcaca ttatcaactc gtagaaaac atcaacaaca cagcaagaaa taattccgac A tgtctctgtg tgggtttgcc ggaggagata tttttcacaa ttccattgt tggagttttg gagaatctga tggctctgtc ggtgtgttc aagaataaga atctccaggc acccatgtac tttttcattc ttagcttggc catatctgat atgctgggca gcttatataa gatcttgaa aatatcctga tcatattgag aaacatggc tatctcaagc caggtggcag ttttgaacc acagccgatg acatcatcga ctccctgtt gtccctctcc tgcctggctc catcttcagc ctgtctgtga ttgctgcgga ccgtacatc accatcttcc agccactgag gtaccacagc atcgtgacca tgcgcgcac ttgtgtgtg ctacgggtca tctggacgtt ctgcacggg ctggcatca ccattgtgat ctctcccat catgtgcca cagtgtacac ctccactg ctgttccgc ttagctgtgt ctctccctg tgcctctatg tgcacatgtt ctgctggt cgatccaca ccaggaaagt ctccaccctc cccagagcca acatgaaagg ggccatcaca ctgaccatcc tgcctgggt ctctatctc tgcctggccc ccttctgtc tcatgtctc ttgatgacat tctgccaag taacctctac tggcctgtc acatgtctc ctccagggtg aacggcatgt ttagctgtg caatgcctc atgacccct tcatatatgc ctccggagc ccagagctca gggacgcatt caaaagatg atctctgca geaggtactg gtag MKHINSYEN INNTARNNSD CPRVVLPEEI FFTISIVGL ENLIVLLAV KNKMLQAPMY P FFICSLAISD MGLSLYKILE NILILRMG YLKPGRSFET TADDIISLF VLSLLGSIFS LSVIAADRYI TIFHALRYHS IVTMRRTVV LTVIWTFTG TGITWVIFSH HVPFTVITFS LFPLMLVFIL CLYVMFLLA RSHTRKISTL PRANMKAIT LTLLGVFIF CWAPFVLHVL LMTFCPSNPY CACVMSLFQV NGMLIMCNV IDPFIYAFRS PELRDAFKKM IFCSRYW	Homo sapiens
32	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	tccctgcggc cgctggttct gtgcccccg cccggcccacc gacggccgag cgttgagatg A actttccgag atctcatgag cgtcagttc gagggacccc gccggacag cagcgaggg ggctccagc cgggcggcg cggggcgagc gggggcgagc cggcccccctc ggaggggccc gcggtggcg gcgtgccgg gggcgccggc gggcgccggc cgttggtggc cgcaggcagc ggcgaggaca accgagctc cggggggag cggggcgagc cggcgccgag cggcgacgtg aatggcacg cggccgctg gggactggtg gtgagcgagc agggcggtgg cgtggcgctc ttcctggcag ccttcactc tatggcgtg gcaggtaacc tgcctgtcat cctctcagtg gcctgaacc gccacctga gacctcacc aactatttca tctgaacct ggccgtggcc gacctgtgc ttagcgccac cgtactgccc tctctggcca ccatggaggt tctgggcttc tgggcttttg gcggcctt ctgacagta tggcgccgag tggacgtgct gtgctgacag gcctccatcc tcagcctctg caccatctc cgtggcggt acgtgggctg gcgcactca	Homo sapiens
33	376	Alpha 1d-adrenoceptor		Homo sapiens

34	376	Alpha 1b- adrenoceptor	NP_000669.1	ctcaagtagacc cagccatcat gaccgagcgc aagcgggcgc ccactcctgc cctgctctgg gtcgtagccc tgggtggtgc cgtaggggcc cgtctgggt ggaaggagcc cgtgccccct gacgagcgct tctgcggtat caccgaggag gcgggctacg ctgtcttctc ctcctgtgtgc tccttctacc tgcccatggc ggtcatcgtg gtcattgact gccgctgta cgtggtcgcg cgacgacca cgcgcagcct cgaggcagc gtaacgagc agcgaggcaa ggcctccgag gtggtgctgc gcattccactg tcgcggcgcg gccacggcg ccgacggggc gcaaggcag cgacgcgcca agggccacac ctcccgagc tcgctctccg tgcctctgct caagtctctc cgtgagaaga aagcgggcaa gactctggcc atcgtcgtgg gtgtcttctg tctctgctgg ttccctttct tcttggctct gcgctcggc tcttggctcc cgcagctgaa gccatcggag ggcgtcttca aggtcatctt ctggctcggc tacttcaaca gctcgtgaa cccgctcacc taccctgtt ccagccgca gttcaagcgc gcttctctcc gctcctcgc ctgccagtgc cgtcgtcgc ggcgcgcgc cctctctggt cgtgtctacg gccaccactg cggggcctcc accagcgcc tgcggccagga ctgcgccccg agttcggcg acgcccccc cggagcgccg ctggccctca cgcgcctccc cgaccccgac cccgaacccc caggcacgcc cgagatgcag gtcctcggtcg ccagccgtcg aaagccacc agcgcctcc ggcagtgag gctgctgggg cogttccgga gaccacgac ccagctcgc gccaaagtct ccagcctgtc gcacaagac cgcccgggg gcgcgcagcg cgcagaggca gctgcgccc agcgtcaga ggtggaggct gtgtccctag gcgtccca cgaactacg ggcagtgcc atttaaggc ccagagcta ggcgcggag gcgactaca gcaactacg ggcggggtaa ggcggaccag agagcgggc tgggttcta agagccccg tgcaaatcgg agacccgaa actgatcagg gcagctgctc tgtgacatcc ctgaggaaact ggcagagct tgaggctgga gccctgaaa ggtgaaaagt agtggggccc cctgctggac tcaggcgcc agaactctt tcttagaagg gagagctgc ggcctccgtg gggccttttg ctcccaatcc ctatttga aacactgccc cactctccat gccctgaacc ctgagttagc agccccaaagc atggccagga agcctgccc MTFRDLISVS FEGRPDSSA GGSAGGGGG SAGGAAPSEG PAVGVPGGA GGGGVVVGAG P SGEDNRSSAG EPGSAGAGD VNCTAAVGGI VVSAQGVGVG VFLLAFILMA VAGNLLVILS VACNRHLQTV TNYFTVNLAV ADLLSATVL PFSATMEVLG FWAFGRFCD WMAADVLLCC TASILSLCTI SVDRYVGVHR SLKYPALMTE RKAAAILALL WVVALVSVG PLLGWKEPVP PDERFCGITE EAGYAVFESS CSFYLPMAVI VMYCRVYV ARSTRSLEA GVKRERKAS EVLRIHCRG AATGADGAHG MRSKAGHTFR SLSVRLLE SREKKAATL AIWGVFVLC WFPFFFLPL GSLFPQLKPS EGVFKVIFWL GYFNSCVNPL IYPCSSREFK RAFURLLRQ CRRRRRRRPL WRVYGHWRRA STGLRQDCA PSSGDAPPGA PLALTALPDP DPEPPTPEM QAPVASRRKP PSAREWRLL GPFRRPTQL RAKVSSLSHK IRAGGAQRAE AACQRSEVE AVSLGVPHEV AEGATCQAYE LADYSNIRET DI aggecaggaga cgtgctgcgg gctggctgc ccgggggaga tgactcctgc caggaggcg A cctctgggaa gaagaccag ggggaagcaa agtttcaggg cagctgagga gccttcgccc cagcccttc gagcccaatc atccccagg ctatggagg cggactctaa gatgaatccc gacctggaca ccggccacaa cacatcagca cctgccact ggggagagt gaaaatgcc aacttctact gcccacaa gacctcagc aactccacac tgccccagct ggacatcacc agggccatct ctgtgggcct ggtgctgggc gccttaccat tctttgccat cgtgggcaac	Homo sapiens
35	377	Alpha 1b- adrenoceptor	NM_000679		Homo sapiens

36	Alpha 1b- adrenoceptor	NP_000670.1	<p>atcctagtca tcttgtctgt ggctgtcaac cggcacctgc ggacgcccac caactacttc atgtcaacc tggccatggc cgacctgtgt ttgagtttca ccgtccctgcc ctctcagcg gccctagagg tgctcggcta ctgggtgctg gggcgatct tctgtgacat ctgggcagcc gtggatgtcc tgtgtgcac agcgtccatt ctgagcctgt gcgccatctc catcgatcgc tacatcgggg tgcgtactc tctgcagtat cccacgtctg ttaccggag gaagccatc ttggcgctgc tcaagtgtctg ggtctgtcc accgtcatct ccacggggc tctccttggg tggaaggagc cggcacccaa cgatgacaag gagtgcgggg tcaccgaaga acccttctat gacctcttct cctctctggg ctctcttctac atccctctgg cggtcattct agtcattgtac tgccgtgtct atatagtggc caagagaacc accaagaacc tagaggcagg agtcatgaag gagatgtcca actccaagga gctgacctg aggatccatt ccaagaactt tcacgaggac acccttagca gtaccaaggc caagggccac aaccccaggg gtcccatagc tgtcaaaactt tttaagtctt ccagggaata gaaagcagct aagacgttgg gcattgtggt cggtatgttc atcttgtgtt ggctacctt ctctcatgct ctaccgcttg gctccttgtt ctccacctg aagccccccg acgctgtgtt caagtggtg tctggctgg gctacttcaa cagctgcctc aaccccatca tctacctatg ctccagcaag gagtccaag gcgtcttcgt gcgcatcctc gggtgccagt gccgcggccg cggccgcgcg cgacgcgcgc gccgcctgc cctggggcgc tgccctaca cctaccggcc gtggacgcgc ggcggctgc tggagcgcgc gcagtcgcgc aaggactcgc tggacgacag cggcagctgc ctgagcggca gccagcggac cctgccctcg gctctgcga gccgggcta cctgggcgc cctgggcgc gccagtcga gctgtgcgc tccccgagt ggaaggcgc cggcgccctc ctgagcctgc cgcgcctga gcccccgcc cgccgcggcc gccacgactc gggcccgctc ttccacttca agctcctgac cgagcccgag agccccgga ccgacggcgg ccgacgcaac ggaggtctgc aggcgcgcgc cgactggcc aacgggcagc cgggcttcaa aagcaacatg cccctggcgc ccgggcagtt ttagggcccc cgtgcgcgc tctcttccc tggggaggaa aacatcgtgg ggggga</p>	Homo sapiens
37	Alpha 1c- adrenoceptor	NM_000680	<p>VGNILVILSV ACNRLRTPT NYFTVNLAMA DLLLSFTVLP FSAALEVLGY WVLGRIFCDI WAAVDVLCCT ASILSLCAIS IDRYIGVRS LQYPTLVTRR KAILALLSW VLSTVISIGP LLGWKEPAPN DDKECGVTEE PFYALFSSLG SFYIPLAVIL VMYCRVYIVA KRTKNLEAG VMKEMSNSKE LTLRIHSKNF HEDTLSSTKA KGNHPRSSIA VKLFFKSREK KAAKTLGIVV GMFILCWLPF FIALPLGLSF STLKPPDAVF KVVFWLGYFN SCNLPIIYPC SSKFEKRAFY RILGQCQCRGR RRRRRRRRR LGGCAYTYRP WTRGGSLEERS QSRKDSLDDS GSCLSGSQRT LPSASPSPGY LGRGAPPPVE LCAFPEWKAP GALLSLPAPE PPGRRGRHDS GPLFTFKLLT EPESFGTDGG ASNGCEAAA DVANGQPQFK SNMPLAQGF gaattccgaa tcaatgtgcag aatgctgaat ctccccccag ccaggacgaa taagacagcg A cggaagaa gattctcga attctggaat tgcattgtgc aaggagtctc ctggatcttc gcacccagct tcgggtaggg agggagtccg ggtcccgggc taggccagcc cggcaggtgg agaggggtccc cggcagcccc gcgcgcccc ggcctatgtct ttaatgccct gcccttcat gtggccttct gaggttccc agggctggcc aggttgtttt cccaccgcgc cgcgcgctct caccocagc caacccacc tggcagggct cctccagcc gagacctttt gattcccgcc tcccgcgctc ccgctccgc gccagccccg gaggtggccc tggacagccg gactcgcgc ggccccggct gggaaccatgg tgtttctctc gggaatgct tccgacagct ccaactgcac</p>	Homo sapiens

38	Alpha 1c- adrenoceptor	NP_000671.1	379	<p> ccaaccgcg gcaccgggtga acatttccaa ggccattctg ctcggggtga tcttgggggg cctcattctt ttcgggtgctc tgggtaacat cctagtgatc ctctcogtag cctgtcacccg acacctgcac tcaagtcaacg actactacat cgtcaacctg gcggtggccg acctcctgct cacctccacg gtgctgacct tctccgccat cttcgaggct ctaggtactt gggccttcgg cagggtcttc tgaacacctt gggcggcagt gtagtgcgtg tgcgtcacog cgtcccatat gggctctgct atcatctcca tcgaccgcta catcggcgtg agctaccgcg tgcgctaccc aaccatcgct acccagagga ggggtctcat ggctctgctc tgcgtctggg cactctccct ggctcatatc attggacccc tgttcggctg gaggcagcgg gccccgagg acgagacccat ctgccagatc aacgaggagc cgggctactg tctcttctca gcgctgggct ccttctacct gcctctggcc atcatcctgg tcatgtactg ccgctctac gtggtggcca agaggagag ccggggccctc aagtctggcc tcaagaccga caagtcggac tcggagcaag tgacgctccg catccatcg aaaaacgccc cggcaggagg cagcgggatg gccagcgcca agaccaagac gcacttctca gtgaggctcc tcaagttctc ccgggagaag aaagcgcca aaacgctggg catcgtggctc ggctgcttcg tccctgctg cctgcctttt tcttagtca tgccattgg gtcttctctc cctgatttca agcctctga aacagttttt aaaaagtat tttggctcgg atatctaaac agctgcatca accccatcat ataccatgc tccagccaag agttcaaaaa ggcctttcag aatgtcttga gaatccagtg tctccgaga aagcagctct ccaaacatgc cctgggtctac accctgcacc gccccagcca ggcctggga gggcaacaca aggacatggg gcgcatcccc gtgggatcaa gagagacctt ctacagatc tccaagacgg atggcgtttg tgaatggaaa ttttctctt ccatgccccg tggatctgcc aggattacag tgtccaaaaga ccaatcctcc tgtaccacag ccgggtgtag aagtaaaagc tttttggagg tctgctgctg tgtagggcc tcaaccccc gcttgacaa gaaccatcaa gtccaacca ttaaggctca caccatctcc ctcagtgaga acggggagga agtctaggac agaaaagatg cagaggaaaag gggaataatc ttaggtaccc acccacttc cttctcgaa ggcagctct tcttgaggga caagacagga ccaatcaaag aggggacctg ctgggaatgg ggtgggtgg agaccaact catcaggcag cgggtagggc acagggaaaga gggagggtgt ctcaacca accagttcag aatgatacgg aacagcattt cctgcagct aatgcttct tggctactct gtgccactt caacgaaaac caccatggga aacagaaatt catgcacaat ccaaaagact ataaatatag gattatgatt tcatcatgaa tatttgagc acacactcta agtttgagc tatttcttga tggaagtgag gggattttat tttcaggctc aacctactga cagccacatt tgacatttat gccggaaattc </p>	Homo sapiens
39	Alpha 2a- adrenoceptor	NM_000681	387	<p> gcgctcgccg ccaaccaggc ggaagcccg gagaacctt gcctccgctc cggctcctgg A agagctgac gttaacctgc ccgccccgc ctgaggacgg ggtgctcttc atgcgggcccc </p>	Homo sapiens

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40	387	Alpha 2a- adrenoceptor	AAA51664.1	<p>gctcacaaaa ggttaaatgga tggggggttac ctagccctgg ctaattcccc ttccattccc aactctctct ctctttttga agaaaaatgc taagggcagc cctgcctgcc ctccccatcc ccgcgtgtaa atatacacta tttttgatag cacacatggg gcccccatat ctcttgccct tggttttgat gttgaaatcc tggccttggg agagatgcct tccaggcaga cacagctgtc tggttcaggc caagccctct tgcaatgcaa gccctttctg tggttatgaa gtccctctat gtcgtcggtt tcaccagcaa ctggtgactg tcccttcgac acggacctgc tttagagattt cctgacaggg aaagatttc tgtccatttt tttcctgtgc ctaacagcat aattgccttt tccatgtaa atattatgat ggtggatcaa gacataagta aatgacctt tctgcctcac atcagccctg tgtataaagc cattattctc tgatgcactg tttgccccag taactcactt taaaacctct ctttccagt ttcctctctc cctccaggg ccactgcttg aagaagaata tgtatgtttc tatctttat tctgtgtgc cctcctgccc ccgaaagtgc tgactatggg gaaatctttt agctgctgtt tttagactcc agggagtga aattatgtgg aagaagcaaa cctgatacaa ttgtcccaag gtaaacagtt tgaaaagaca aatgggacctg ccaaacgtga cagttcttc ccaagagct gtaggtatc aaatgttgt cctttccccc ctccgtgctt ttctggttga gatcatgtca ttgatgaact gccaaagtca ggggaggagg gcagagactt tgtgtttaca tctgcatttc tacatgtttt agacagagac aatttaaggc ctgcactctt atttactaa agaaaaacta atgtcagcac atgttgctaa tgacagtga tttttttta aataaaaaa tttacagatc aatgtgaaa taaatatgaa tggagtggtc aaa MGS1QPDAGN ASWNGTEAPG GGARATPYSL QVTILTLCIA GLMLLTVFG NVLVIIVFT P SRALKAPQNL FLVSLASADI LVATLIVPFS LANEWMGYWY FGKTWCEIYL ALDVLFTSS IVHLCAISLD RWSITQAI EYNLKRTPRI KALITCWVI SAVISFPPLI SIEKKGGGG PQPAEPRCEI NDQKWYVVIS CIGSFFAPCL IMILVYVRIY QIAKRTRVP PSRRGPDVA APPGGTERRP NGLGPERGAG PGGAEEAPLP TQLNGAPGER APAGPRDTDA LDLEESSSD HAERPPGPRR PERGPRGK GK ARASQVKPGD SLRGAGRGR RSASGLPRRR AGAGGQNLEK RFTFVLAVI GVFFVWFFP FFTYTLTAVG CSVPRTLFKE FFWFGYCNS LNPVIYTIEN HFRRAFKKI LCRGDRKRIV</p>	Homo sapiens
41	388	Alpha 2b- adrenoceptor	NM_000682	<p>atggaccacc aggaccctta ctcctgtcag gccacagcgg ccatagcggc ggccatcacc A ttctcattc ttcttaccat cttcggcaac gctctggtca tcttggtgtg gttgaccagc cgctcgctgc gcgccctca gaacctgttc ctggtgtcgc tggccgccgc cgacatcctg gtggccacgc tcatcatccc tttctcgctg gccaacgagc tgctgggcta ctggtacttc cggcgacgt ggtgcgaggt gtacctggcg cctggaccgc tactgggccc tgagccgcgc gctggagtac gtcacctgt gcgccatcag cctggaccgc cgcgatcaag tgcatactcc tcaactgtgt gctcatcgcc aactccaagc gcccccgcgc cctcatctac aaggcgagcc agggccccc aagcgcgcg gccgtcatct cgtcgccgc ccaggtctca ccaggaggcc tggctacatcc tggcctccag catcggtatc cgccccagt gcaagtcaa cctcatctac tctacactgc gcatctacct gatcgccaaa ttcttggctc cttgctcat catgacctt gctacactgc gcatctacct gatcgccaaa cgcagcaacc gcagaggtcc cagggcccaag ggggggcctg gccagggtga gtccaagcag ccccgacctg accttggtg gctttggcc tcagccaaac tgcagacctt ggcctctgtg ccttctgcca gagaggtcaa cggacactgc aagtcactg ggcagaaagg gaggggggag acctctgaag atactgggac ccgggccttg ccacctagt gggctgacct tcccaactca ggccagggcc agaaggaggg tgtttgtggg gcactctccag aggatgaagc tgaagaggag</p>	Homo sapiens

gaagaggagg aggaggagg ggaagagtgt gaacccagg cagtgccagt gtctccggcc
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 gctattttat caataaagg tattttgtaa taag

Homo

P

LVSILAAADIL

RSLRAPQNL

ALVILAVLTS

FLILFTIFGN

ATAATAAAIT

NP_000673.1

Alpha 2b-

388

42

adrenoceptor		sapiens
43	389	<p>VATLIIPFSL ANELLGYWF RRTWCEVYLA LDVLFCTSSI VHLCAISLDR YWAVSRALEY NSKRTPRRIK CIILTWWLIA AVISLPPLIY KGDQGPQPRG RPQCKLANQEA WYILASSIGS FFAPCLIMIL VYLRILYLIK RSNRRGPRAK GPGQGESKQ PRPDHGGALA SAKLPALASV ASAREVNGHS KSTGEKEGE TPEDTGTAL PPSWAALPNS GQQKEGVCG ASPEDEAEEE EEEEEEEC EPQAVPVSPA SACSPPLOQP QGSRVLATLR GOVLLGRGVG AIGGQWRRRR AHVTREKRF FVLAVIGVF VLCWFPEFFS YSLGAICPKH CKVPHGLFQF FFWIGYCNSS LNPVIYTIEN QDFRRAFRI LCRPWTQTAW</p>
	NM_000683	<p>ctgcaggcgg ccttgaggg ggcgcctcg ccgagcgcgc gccccgcgc gccgcccccg A actctcccc ggcgcgcgc ggcaggttc gaccaggcgg ccgcgggctc cggttccccg ccagctccc agggcccgc ggcgccgc cactcgcgc cagcagggc ggcggcggcg cccaagtgg aagccgatcg cagggcgccg cggccgcacg gaaagcgtgg accgcggggg gcggcggcgc agtccggcg agcaggcgg gggccgcacg gaaagcgtgg accgcggggg gcgccccgc cgggagcagc cggaggaactc ggcggcggcg cggcgcgcgc gccgggaaaag taaaattgga gacggaggga gcgcgcgggg cgggccccga ggcggcggcg ccggccttgt ggcgcgca gccctagcgc ccggatgga ggcggacggc ccgggcccc gccgccttgt cgctgcgc ccggctgggc tccgggacgc cggggccgct acggcacgc cgtcggcccc gcgtcgcgtg ggcgcgcgc cggggcgctc ccgtgagcgc ggcgagggcg ggcgcgcga ggacccccgg acctgcccc ctcccccgc agccgcgtcg ccgtcgcgc cgggcgcctc ctgtcttga cttacacgtc cggcagctgc ggggagcctg gcagccacgc tctccggcgc gccgccccgc gagccaccac ggcgagggc cggctgctgg gcgcgcggt ccccggcggg cgccccgcg cagcagggcg cgtgcggcg ggcgagggc gctgggggg gcccgagctg ccgggctgc gcccgctc caggagggcg ggcgtagccc ggcggaggac catggcgtcc cggcgctgg gcgcggcgt ggcgggtggc gcagcggcg gccccaatgc gagcggcgcg ggcgagagg gcagcggcg ggttgccaat gcctcgggg cttcctggg gccgcgcgc ggccagtact cggcgggcg ggtggcagg cttggctgcg tgggtggctt cctcatcgtc ttcaacctgg tgggcaactg gctggtggtg atgcgcgtgc tgaccagccg ggcgctgcgc gcgccacaga acctcttct ggtgtcgtg gcctcggcg acatcctggt ggcacgcgtg gtcatgccct tctcgttgg caacgagctc atggcctact ggtacttcgg gcaggtgtgg tgcggtgtgt acctggcgt cgtgtgctg ttttgacct cgtcgatcgt gcactgtgtg gccatcagcc tggaccgcta cgtgtcggcg acgagggcg tcgagtacaa cctgaagcgc acaccacgcc ggtcaaggc caccatcgt gccgtgtggc tcactcggc cgtcatcctc ttccgcgcgc tgggtctcgt ctaccgccag ccgcagggcg ccgcctaccc gcagtgcggc ctcaacgacg agacctggt catcctgtcc tctgcgatcg cgtccttctt cgcgcctgc ctcatcatgg ggcctggtta cgcgggcata taccgagtg ccaagcgtcg cagcgcacg ctcagcgaga agcgcgcgc cgtgggcccc ggcactgcgc gcccccgc gccgacgtgg ctggcgcg cggcagggca ggcgagaacg ggcagggcg cggggccgtt gcgcgggggc agccggacga gagcagcga gcggccgaga ggcggcgcg cgggacgggca gggggcgggg ggcgcgcg gagcggcg gcaggggggc ggcgggggtg cgggacgggca gggggcgggg ccggggcg ctcagtcgg ggcgtgacc gccctcaggt ccccggggc cgtggcgcg ctctcgcgc ccagtcgcgc ctcgctcag ttctctctgt cgcgcggcg cggggcgcg agcagcgtgt ccgcgcgcaa ggtggcccg gcgcgcgaga agcgtctcac ctttgtgctg</p>
	Alpha 2c- adrenoceptor	<p>Homo sapiens</p>

44	389	Alpha 2c- adrenoceptor	NP_000674.1	<p> MASPALAAL AVAAAAGPNA SGAGERGSGG VANASGASWG PPRQYSAGA VAGLAADVGF P LIVFTVGNV LVVIAVLSR ALRAPQNLFL VSLASADILV ATLVMPFSLA NELMAYWYFG QVWCGVYIAL DVLFTSSIV HUCAISLDY WSVTQAVEYN LKRTPRRVKA TIVAVWLISA VISFPPLVSL YRQPDGAAYP QCGLNDETWY ILSICIGSFF APCLIMGLVY ARIYRVAKRR TRTLSEKRAP VGPDGASPTT ENGLGAAAGE ARTGTARPR PWSRTRAAQ RPRGGAPGL RRGRRRAGA EGGAGGADGQ GAGPGAQSG ALTASRSPR GGRLSRASSR SVEFFLSRRR RARSSVCRK VAQAREKRFI FVLAVVMGVF VLCWFFPFFFI YSLYGICREA CQVPGPLFKE FFWIGYCNSS LNPVIYTVFN QDFRPFKHI LFRRRRGFR Q ctgtgcatgg catcatctg gccctctcta gagctccaat cctccaacca gagccagctc A ttccctcaa atgtacggc ctgtgacaat gctccagaag cctgggacct gctgcacaga gtgtggtct tctctctcat ctccatctgt ttcttcggcc tcttagggaa ccttttgtc ctgtggtct tctctctgcc ccggcgggcaa ctgaacgtgg cagaaatcta cctggccaac ctggcagcct ctgactctgt gttgtcttg ggttgccct tctgggcaga gaatatctgg aaccagtta actggcctt cggagccctc ctctgctg tcatcaacgg ggtcatcaag gccaattgt tcatcagcat ctctctggtg gtggccatca gccaggaccg ctaccgctg ctgtgaccc ctatggccag cggaaaggcag cagcgccgga gccaggcccc ggtcacctgc gtgtcatct ggtgtgtgg gggcctcttg agcatcccca cattcctgct gcatccatc caagccgtcc cagatctgaa catcaccgcc tgcctcctgc tctccccc tgaggcctgg cactttgcaa gattgtgga gttaaatatt ctgggttctc tctaccact ggctgcgac gtctcttca actaccacat cctggcctcc ctgcgaacgc gggaggaggt cagcaggaca agagtgcgg ggcgaagga tagcaagacc acagcgtga tctcacgct cgtggttgc ttctgtgtct gctgggcccc ttaccacttc ttggccttc tggaattctt attccaggtg caagcagtc gaggtgctt ttggaggac ttcatgacc tgggacctga attggccaac ttctttgct tcaataacag ctccctgaat ccagtaattt atgtcttctt gggccggctc ttcaaggaca aggtctggga acttataaa cttatgcccc ctaaaagtct tgcaccaata tcttcatccc ataggaaa aatcttccaa ctttcttggc ggaattaaaa cagcattgaa cc </p>	Homo sapiens
45	599	Bradykinin B1 Receptor	NM_000710	<p> ctgtgcatgg catcatctg gccctctcta gagctccaat cctccaacca gagccagctc A ttccctcaa atgtacggc ctgtgacaat gctccagaag cctgggacct gctgcacaga gtgtggtct tctctctcat ctccatctgt ttcttcggcc tcttagggaa ccttttgtc ctgtggtct tctctctgcc ccggcgggcaa ctgaacgtgg cagaaatcta cctggccaac ctggcagcct ctgactctgt gttgtcttg ggttgccct tctgggcaga gaatatctgg aaccagtta actggcctt cggagccctc ctctgctg tcatcaacgg ggtcatcaag gccaattgt tcatcagcat ctctctggtg gtggccatca gccaggaccg ctaccgctg ctgtgaccc ctatggccag cggaaaggcag cagcgccgga gccaggcccc ggtcacctgc gtgtcatct ggtgtgtgg gggcctcttg agcatcccca cattcctgct gcatccatc caagccgtcc cagatctgaa catcaccgcc tgcctcctgc tctccccc tgaggcctgg cactttgcaa gattgtgga gttaaatatt ctgggttctc tctaccact ggctgcgac gtctcttca actaccacat cctggcctcc ctgcgaacgc gggaggaggt cagcaggaca agagtgcgg ggcgaagga tagcaagacc acagcgtga tctcacgct cgtggttgc ttctgtgtct gctgggcccc ttaccacttc ttggccttc tggaattctt attccaggtg caagcagtc gaggtgctt ttggaggac ttcatgacc tgggacctga attggccaac ttctttgct tcaataacag ctccctgaat ccagtaattt atgtcttctt gggccggctc ttcaaggaca aggtctggga acttataaa cttatgcccc ctaaaagtct tgcaccaata tcttcatccc ataggaaa aatcttccaa ctttcttggc ggaattaaaa cagcattgaa cc </p>	Homo sapiens

46	599	Bradykinin B1 Receptor	NP_000701.1	MASSWPPELE QSSNQSLFP QNATACDNP EAWDLLHRVL PTFIISICFF GLLGNLFVLL P VFLLPRRQLN VAEIYLANLA ASDLVFVLGL PFWAENIWNQ ENWPFGALLC RVINGVIXAN LFISIFLVVA ISQDRYRVIV HPMASGRQQR RRQARVTCVL IWWVGGLLSI PTFLLRSIQQA VPDLNITACI LLLPHEAWHF ARIVELNIG FLEPLAAIVF VRYHILASLR TREEVSRTRV RGPDKSKTTA LILTLVAFV VCMAPYHFFA FLEFLFQVQA VRGCFWEDEFI DLGLOLANFF AFINSSLNVP IYVFGRLFR TKWELYKQC TPKSLAPQSS SHRKEIFQLF WRN	Homo sapiens
47	600	Bradykinin B2 Receptor	NM_000623	atgttctctc cctggaagat atcaatgttt ctgtctgttc gtgaggactc cgtgccacc A acggcctctt tcagcgcca catgctcaat gtcacctgc aaggccccac tcttaacggg acctttgcc agagcaaatg cccccaagt gagtggctg gctggctcaa caccatccag cccccttc tctgggtgct gtcgctgctg gccacctag agaactctt tgcctcagc gtcttctgcc tgcacaagag cagctgcacg gtggcagaga tctacctgg gaaacctggc gcagcagacc tgatcctggc ctgcgggctg ccttctggg ccatcaccat ctccaacaac ttcgactggc tctttgggga gacgctctg cgcgtggtg atgccattat ctccatgaac ctgtacagca gcatctgttt cctgatgctg gtgagcctg accgctacct ggccctggg aaaacctgt ccatggggcg gatgcgcgc gtgagcctg ccaagctcta cagcttggg atctgggggt gtacgctgct cctgagctca cccatgctg tgtccggac catgaaggag tacagcgatg agggccaca cgtcacctg tgtgtcatc gctaccatc cctcatctg gaagtgttca ccaacatgct cctgaatgtc gtgggcttc tgcgtccct gagtgtcatc accttctgca cgtatcagat catgcagggt ctgcggaaca acgagatgca gaagtccaag gagatccaga cggagaggag ggccacgggt ctagtctgg tttgtctgct gctattcctc atctgtggc tgccttcca gatcagacc tctctggata cgtctgcatc cctcggcatc ctctccagct gccaggacga ggcctatc gatgtaata cacagatgc ctcttctatg gcctacagca acagctgct caaccactg gtgtacgtg tgcgtggcaa gcgcttccga aagaagtctt gggaggtgta ccaggaggtg tgcagaaa ggggctgcag gtcagaacct attcagatgg agaactccat ggacacactg cggacctcca tctcgtgga acgacagatt cacaactgc agactgggc agggagcaga cagtgcagca acgacagcag ggtgctgtg aatttgtga aggattgag gacagtgtt tttcagcatg ggccaggaa tgcgaaggag acatctatgc acgacctgg gaaatgagt gatgtctccg gtaaacacc ggagactaat tctgcccctg ccaattttg caggagcat ggtgtgagg atggggtgaa ctacgcaca gccaaggact ccaaatcac aacagcatta ctgttcttat ttgctgcc acctgagcca gcctgctcct tcccaggat ggaggaggc tggggggagg gagaggagt actgagctc cctccctgt gtctccgtc cctgccccag caagacaact tagatctcca ggagaactgc catcagctt tgggtgcaatg gctgagtga caagtgtgt ttgcccctg gtttctttaa tctattcagc tagaactttg aaggacaatt tcttgcatc ataaagttt agccctgagg ggtccctgat acaacctgg agaccaggat ttatggctc cctcactga tggacaagga ggtctgtgcc aagaagaat ccaataagca catattgagc acttgctga tatgagat tgagcactgt agccaagacc caaagaagag aaggagccat ctccatctt aggaactca aagactcaag tgggaacgac tgggacctgc caccaccaga agctgttctc aggagacggt cagcaggggt gctgtgggtg atatggacag cagaaggggg agccaaggt tccagctcaa ccaataacta ttgcacaacc acctgtccct gctcagttc cttttatgt aacatgaagt cgttgtgagg gttaaaggca gtaacaggta taaagtactt agaaaagcaa aggtgtgctac	Homo sapiens

48	600	Bradykinin B2 Receptor	NP_000614.1	<p>gtacatgtga ggcatacatta cgcagacgta actgggatat gtttactata aggaaaaagac actgaggtct agaaatagct ccgtggagca gaatcagtat tgggagcccg tggcgggtgtg aagcaccagt gtctggcaca cagtaggtgc tcatggctc ccttccacct gtcattocca ccacctgag gccccaaccg ccacacacac aggagcattt ggagagaagg ccatgtcttc aaagtctgat ttgtatgag gcagaggaag atatttctaa tcggtcttgc ccagaggatc acagtctga gacccccac caccagcccg tacctgggaa gggggagagt gcaggcctgc tcagggactg ttctgtctc agcaaccaag ggattgttc tgtcaatcaa tggtttattg gaagtggtgccc cagtatgagc cctagaagag tgtgaaaagg aatggcaatg gtgttcacca tcggcagtc cagggcagca ctcatttact tgataaatga atatttatta gctggttgga gagctagaac ctggagagct agaacctgga gaactagaac ctggagggtc agaacctgga gaggctagaa ccaagaaggg ctagaacctg gaggggctag aacctagaga agctaaacc tgagctagaa gctggaggag tagaacctgg agggctgtaa tctgaagggc tagaacctgg agggctgaa tctggagagc tagaacctgg agggctagaa cctggagggc tagaacctag aagggttaga acctggagg ctggaatctg gagagctaga acctggagg ctagaacctg gagggctaga acctagaagg gctagaacct ggagggctag aacctggcag gttagaacct agaagggtc gaaacctggag agccagaacc tggagggtc gaacctggaa gggctagaac ctgtagagct agaacatgga gagctagaac cgggcaggct agaacctggc aagctagaac ctggaggga tgaacctgga gggctagaac ctggagaagt agaaaaattt acatggcaaa gagccataa atcttgacca atccaactct gaattttaa gcaaaagcgt gaaaaaaaag attccctct taccccaac ccaactttt tcccaccac ccaactctct ctgcctcagt aagtatctgg aggaagaaa caggtgaaag aagaagtaa aacctttag tattagtatt agaatgaagt caactgtgc cacacatggt gaatgaaaa aaaaaaaaag aggtgtgtt ttgtcacaca ggcagtcac tcagcaccag agcacgtgat ggtctgagac tctcttagga gcagagctct gccgaatgg ccatgtggg atccacacct ggtctgagg gcaactgagt ctgcgggaga agagcgccc tatgcatggt gtagatgcc ttagataaaga catctgtcct gtgaaaagact caatgagctg ttatgttga aacaggaagc atttccatc caaacgagaa aatcatgtaa acatgtgtct tttctgtaga gcataataaa tggatgaggt ttttgcaaaa aaaaaaaaaaa aaa</p>	Homo sapiens
49	635	Beta-1 adrenoceptor	NM_000584	<p>tgctacccgc gccgggctt ctgggtgtgt ccccaaccac ggcccagccc tgccacacc A ccgcccccg gccctccgag ctgcgcatgg gcgggggggt gctgctctg ggcctctcg agcccggtaa cctgtgtctg gccgaccgc tcccagcgg cgcggccacc gcggcgcggc tgctgtgtcc cgtgtgtccg cccgctcgt tctgtctcc cgcagcgaa agccccgagc cgctgtctca gcagtggaca gcgggcatgg gctgctgat gcgctcatc gtgctgtca tcgtggcggg caatgtgtg gtgctgtgg ccctgcgcaa gacgcgcgg ctgcagacgc</p>	Homo sapiens

50	Beta-1 adrenoceptor	NP_000675.1	<p> tgccgttcgg gggccaccatc ttcatcatg tccctggcca gcgcggacct ggtcatggg ctgctggtgg agctgtggac ctacgtggac gtgctgtgcg tgcggtggg gtacggctcc ttcttctcgc ttgcccctgga ccgtaccct gccatcacct cgccttccg ctaccagagc ctgctgaagc gcgcggggc gcggggcctc gtgtgcaccg tgtggccatc ctggccctg gtgtcctcc tgccatcct catgcaactg tggcggggcg agagcgagc ggcgcggcg tgctacaacg acccaagtg ctgcgactc gtcaccaacc ggcctacgc catgcctcg tccgtagtct cctttacgt gccctgtgc atcatggcct tctgtacct gcgggtgttc cgcgagggcc agaagcaggt gaagaagatc gacagctgcg agcgccttt cctcggcgcc ccagcggcg cgcctcgcc ctgcctcgc cccgtcccg cgcgcggcg ccaacggcg tgcgggtaag cggcggccct cgcgcctcgt ggcctacgc gacgagaag cgtcaaacg gctgggcatc atcatggcg tcttcacgt ctgctggctg ccttcttcc tggccaacgt ggtgaaggc ttccacggc agctggtgc cgaccgctc ttcttcttct tcaactggt ggtctacgc aactcgct tcaaccccat catctactg cgcagcccg acttccgaa ggcctccag ggaactgct gctgcgcgcg cagggtctgc cgcggcgcc acggaacca cggagacgg ccgcgcct cgggctgtct ggcgcggccc gacccccc ccatgcctcg ggcgcctcg gacgacgag acgacgatgt cgtcggggc acgcgcctc cgcgcctg ggcgcctg ggcgcctg acggcggggc gcgcggggc agcgcctcga gctgggacga cctcggcgcc cgcggcttcg cctcggaatc caaggtgtg ggcgcggcg ggcgcggcg cctcggcgac ggttccccg gggacgag agatctgtg ttaactaaga cgcatagcag gtgaactcga agccacaat cctcgtctga atcatccgag gcaagagaa agccacgga cgttgacaa aaaaggaaa ttgggaaag gatggagag tggctgtcg atgttcttg ttg </p>	Homo sapiens
635	Beta-1 adrenoceptor	NP_000675.1	<p> MGLMALIVL LIVAGNVLVI VAIKTPRLQ TLNLFIMSL ASADLMGLL VPFQATIVV WGRWEYGSFF CELMTSDVL CVTASITLC VTALDRYLA TSFPRYQSL TRARAGLVC TVWALSALVS FLPILMHWR AESDEARRCY NDPKCCDFVT NRAYAIASSV VSFYVPLCIM AFVYLRVRE AQKVKKIDS CERFLGGPA RPPSPSPV PAPAPPPGP RPAANAATAP LANGRAGRR PSRLVALREQ KALKTGLIIM GVTLCLWLP FLANVVKAFH RELVPDRLFV FFWLGYANS AFNPIIYCRS PDFRKAFOGL LCCARRAARR RHATHGDRPR ASGCLARPGP PPSPCAASDD DDDDVVGATP PARLLEPWAG CNGGAAADSD SSLDEPCRP FASESKV </p>	Homo sapiens
640	Beta-2 adrenoceptor	NM_000024	<p> actggaagc ggctcttca gagcacggc tggaaactggc agcacccgc agccctagc A acccgacaag ctgagtgctc agcacgagtc ccacacacac ccacacacac gcgcctgaat gaggttcca ggcctcctt cgcggccgc agacccccc cgtgggtccg ccgcctgagg cgcctccagc cagtgcctt acctgcaga ctcgctgcca tggggcaacc cgggaacggc agcgccttct tgcctggacc caatagaagc catgcgcgg accacgacgt cactgcatc agggacgagg tgtgggtggt ggcgatggc atcgtcatgt cctcctcgt cctggccatc gtgtttggca atgtgtggt catcacagc attgccaagt tgcagcgtct gcagacggtc accaactact tcatcactc actgacctg tcatgggctt tcatgggctt ggcagtgggtg cctttgggg ccgccatat tcttatgaa atgtggactt ttggcaactt ctggtgcgag ttttgactt ccattgatgt gctgtgcgtc acggccagca ttgagaccct gtgctgtgac </p>	Homo sapiens

52	640	Beta-2 adrenoceptor	NP_000015.1	<p>gcagtggtatc gctactttgc cattacttca cctttcaagt accagagcct gctgaccaag aataaggccc gggtgatcat tctgatgtgt tggattgtgt caggccttac ctcttcttg ccattcaga tgcaactgga ccgggccacc caccaggaag ccatcaactg ctatgccaat gagacctgct gtgacttctt caggaaccaaa gcctatgcca ttgctcttc cctggtgtcc ttctacgttc cctgtgtgat catgtgtctt gtctactcca ggtctcttca gtaggcca aggcagctcc agaagattga caaatctgtg ggcgcttcc atgtccagaa ccttagccag gtggagcagg atgggcccgc ggggcatgga ctccgcagat ctccaagt ctgcttgaag gagcacaaa cctcaagac gttaggcac atcatggga cttcacct ctgctggctg cccttcttca tctttaacat tctgcatgtg atccaggata acctcatccg taaggaaagt tacatctcc taaattggat agctatgtc aattctggtt tcaatcccc tatctactgc cggagcccag atttcaggat tgcctccag gagcttctgt gctgcccag gtcttcttg aaggcctatg ggaatggcta ctccagcaac ggcaacacag gggagcagag tggatatcac gtggaacagg agaaagaaaa taaactgtgt tctgaagacc tcccaggac ggaagacttt gtgggccatc aaggtactgt gcttagcgtt aacattgatt cacaaggag gaattgtagt acaaatgact cactgctgta agcagtttt tctacttta agaccccc ccccccaac agaacactaa acagactatt taacttgagg gtaataaaat tagaataaaa ttgtaaaaaat tgtatagaga tatgcagaag gaaggcctc ctctgctt ttttatttt ttaagctgta aaaagagaga aaacttattt gactgattat ttgttattt tacagttcac ttctctttg catggaattt gtaagtattt gctaaagag ctttagctt agaggacctg agtctgctat atttccatga ctttccatg tatctacctc actattcaag tattagggtt aatatattgc tgctggtaat ttgtatctga aggagatttt ccttctaca ccttggact tgaggatttt gagtatctcg gacctttcag ctgtgaacat ggactcttcc cccactctc ttattgtctc acacgggga ttttaggcag ggaattgagg agcagcttca gttgttttcc cgagcaaaag tctaaagttt acagtaata aaatgttga ccatg</p>	Homo sapiens
53	643	Beta-3 adrenoceptor	NM_000025	<p>MGQPGNGSAF LLAENRSHAP DHVDTQQRDE VMVGMGIVM SLIVLAVFG NVLIVTIAIAK P FERLQTVTNY FITSLACADL VMGLAVVPFG AAHILMKMT FGNFWCEFWT SIDVLCVTAS IETLCVAVD RYFAITSPFK YQSLLTKNKA RVILMWIV SVLTSFLPIQ MHWYRATHQE AHCYANETC CDFETNQAYA IASSIVFYV PLVIMVIVS RVFQAKRQL QKIDKSEGRF HVONLSQVEQ DGRTHGLRR SSKFCLKEHK ALKTLGIIMG TFLCWLPEF IVNIVHVIQD NLIRKEVYIL LNWIGYVNSG FNPLIYCRSP DFLAFQELL CLRRSSLKAY GNGYSSNGNT GEQSGYHVEQ EKENKLLCED LPETEDFVGH QETVPSDNID SQGRNCSTND SLL</p>	Homo sapiens

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 ttac

Homo sapiens

NP_000016.1 MAPPHENSS LAPWDLPTL APNTANTSGL PGVPWEAALA GALLALAVLA TVGNLLVIV P
 AIAWPRLOQ MTNVFTSLA AADLVNGLLV VPPATIALT GHWPFGATGC ELWTSVDVLC
 VTASITICA LAVDRYLAIV NPLRYGALVT KRCARTAWL VVVVSAVSE APIMSQWVRV
 GADAEQRCH SNPRCCAFAS NMPYVLLSSS VSFYLPFLVM LFVYARVFW ATRQLRLRG
 ELGRFPPEES PPAPSRSLAP APVGTCAFFE GVPACGRRA RLLPLREHRA LCTGLIMGT
 FTLCWLPPFL ANVLRALGGP SLVPGPAFLA LNWLYGANS FNPILYCRSP DERSAFRRLL

Beta-3 adrenoceptor

54 643

55	688	Opsin, blue-sensitive	NM_001708	<p>CRGRRLLPPE PCAAARPALF PSGVPAARSS PAQPRLCQRL DGASWGVs</p> <p>ggcatccatg agaaaaatgt cggaggaaga gttttatctg ttcaaaaaa tctcttcagt A</p> <p>ggggccgtgg gatgggctc agtaccacat tgcccctgtc tgggccttct acctccaggc</p> <p>agctttcatg ggcatgtgt tcttatagg gttcccaact aatgccatgg tgcgtggtgc</p> <p>cacactgcgc tacaaaaagt tgcggcagcc cctcaactac attctggtca acgtgtcctt</p> <p>cggaggcttc ctccctgca tcttctctgt ctccctgtg ttcgtcgcca gctgtaacgg</p> <p>atacttcgtc ttcggtcgcc atgtttgtgc ttggagggc ttccctggga ctglagcagg</p> <p>tctggttaca ggatggtcac tggccttctc tggccttgag cgtacattg tcatctgtaa</p> <p>gcccctcgcc aacttcgct tcagctccaa gcatgcactg acggtggtcc tggctacctg</p> <p>gaccattggt attggcgtct ccatccacc cttctttggc tggagccggt tcatccctga</p> <p>ggccttgca ggttctctgt tcatcttctg cttcttctg cctctctccc tcatctgctt</p> <p>gtctatacg tggttctctc tcatcttctg agctgttga gctcagcagc aggagtcagc</p> <p>ctctacact cagctgctga gggccctgaa agctgttga gctcagcagc aggagtcagc</p> <p>tacgacccag aagctgaac gggaggtgag cggatggtg gttgtgatgg taggatcctt</p> <p>ctgtgtctgc tacgtgccct acggtgccct cggcatgtac atggtcaaca accgtaacca</p> <p>tgggctggac ttacggcttg tcaccattcc ttcattcttc tccaagagtg cttgcatcta</p> <p>caatcccatc atctactgct tcatgaataa gcatgtccaa gcttgcatca tgaagatggt</p> <p>gtgtgggaag gccatgacag atgaatccga cacatgcagc tccagaaaaa cagaagtctt</p> <p>tactgtctcg tctaccacaa ttggccccc aatattggcc tgtttgcaac</p> <p>agctagaatt aaatttact t</p>	Homo sapiens
56	688	Opsin, blue-sensitive	NP_001699.1	<p>MRKMSSEEFY LFNKISSVGP WDGPQYHIAP VWAFLQAAF MGVFLIGFP LNMVLVATL P</p> <p>RYKLRQPLN YILNVSEFG FLICFVSFP VFGRHVCALE GLGTGVALV</p> <p>TGWSLAFLAF ERYTVICKPF GNFRSSKHA LTVLATWTI GIGVSIPPF GWSRFIPEGL</p> <p>QCSCGPDWYT VGTKYRSESY TWFLIFCFI VPLSLICFSY TQLRLALKAV AAQQQESATT</p> <p>QKAEREVSRL VVMVGSFCV CYVPYAFAM YMVNRRHGL DLRLVTIPSF FSKSACIYNP</p> <p>IIYCFMNKQF QACIMKMWCG KAMTDES DTC SSQKTEVSTV SSTQVGP</p> <p>gagtatctgg atgtcttga tttcttccc attctgtctt gttctgttct cctaatacca A</p> <p>tctcgttact agacgtaggc attggacgtg acaatcaact geattgaac tgagaagaag</p> <p>aaatattaaa gacacagtc tcaagaagaa tggctcaaa gcaagcctcac tcaactaatc</p> <p>agactttaat ttcaatcaca aatgacacag aatcatcaag ctctgtggtt tctaacgata</p> <p>acacaaataa aggatggagc ggggacaaact ctccaggaat agaagcattg tggccatct</p> <p>atattactta tgcgtgtgac attcagtggt gcatccttgg aaatgctatt ctcatcaaa</p> <p>tctttttcaa gaccaaattc atgcaaacag ttccaaatat ttctcatcacc agcctggcctt</p> <p>tggagatct tttacttctg ctaacttgg tgcagtgga tgcaactcac taccttgtag</p> <p>aaggatggct gttcgggaaga attggttga agtgcctctc ttcatccgg ctcaactctg</p> <p>ttggtgtgtc agtgttcaca ttaacaattc tccatgcca tctgaagac ttgtgtaaaa gctggctgag</p> <p>agccacttga ggcacagccc tccatgcca tctgaagac ttgtgtaaaa gctggctgag</p> <p>tctggatcgt gtcctatgata ttgtctctac ctgaggttat atttcaaat gtatacactt</p> <p>ttcggatccc caataaaaat atgacatttg aatcatgtac ctttattcct gtctctaaga</p> <p>agctcttga agaaatacat tctctgtgtg gctcttagt ttctacatt attccactct</p> <p>ctattatctc tgtctactat tctctgattg ctaggacctt ttacaaaagc acctgaaca</p>	Homo sapiens
57	692	Bombesin Receptor Subtype-3	NM_001727		Homo sapiens

58	Bombesin Receptor Subtype-3	NP_001718.1	<p>tacctactga ggaacaaagc catgcccgta agcagattga atccccaaag agaattgccca gaacggtatt ggtgttggtg gctctgttg cctctgttg gttgccaaat cactctctgt acctctacca ttcatcact tctcaaacct atgtagacc cctgcccatt catttcattt tcaccatttt ctctcggtt ttggctttca gcaattcttg cgtaaacccc ttgctctct actggctgag caaaagcttc cagaagcatt ttaaagctga gttgtttctgt tgaaggcggg agcgccctga gctctctgtt cgtgacacat cctttaccac cctggctgtg atgggaacgg tccccggcac tgggagcata cagatgtctg aaattagtgt gacctgttc actgggtgta gtgtgaagca ggcagaggac agattctagc ttttcaagga aaaaatgtgc ttctctccc agcgtgtgta tccgactcta agctgtgtgc agg</p> <p>GILGNAIILIK VFFKTKSMOT VPNIIFITSLA FGDLLLLLTC VPVDATHYLA EGWLFGRIGC KVLSEFIRLTS VGVSVFTLTI LSADRYKAVV KPLERQPSNA ILKTCVKAGC WVIVSMIFAL PEALIESNVYT FRDPNKMFTF ESCTSYPVSK KLLQEIHSLL CFLVEYIIPL SIISVYSLI ARTLYKSTLN IPTEEQSHAR KQIESRKRIA RTVLVLVLF ALCWLPNHLI YLYHSFTSQI YVDPSAMHFI FTIFSRVLAF SNSCVNPFAL YWLSKSFQKH FKAQLFCCKA ERPEPPVADT SLTTILAVMGT VPGTGSIQMS EISVTSFTGC SVKQAEDRF</p>	Homo sapiens
59	CXC Chemokine Receptor 5	NM_001716	<p>gctgccacct ctctagaggc acctggcggg gacccctca acataagaca gtgaccagtc A tggtgactca cagccggcac agccatgaac tacccgctaa cgctggaat ggacctcgag aaactggagg acctgttctg ggaactggac agattggaca actataacga cactccctg gtggaataat atctctgcc ttgcaacagag gggccctctt tgacctctt caaggccgtg ttcgtgccc tggcctacag cctcatcttc ctctctggcg tgatcggaac cgtcctgggtg ctggtgatcc tggagcggca cggcagaca cgcagttcca cggagacctt cctgttccac ctggccgtgg ccgacctcct gctggtcttc atcttgccct ttgccgtggc cgagggtctt gtgggctggg tccctggggac ctctctctgc aaaaactgta ttgccctgca caaagtcaac ttctactgca gcagcctgct cctggcctgc atgcctctgc accgtacctt ggcattgtc cacgccgtcc atgcctaccg ccacgcgcgc ctctcttcca tccacatcac ctgtgggacc atctggctgg tgggcttctt ccttgccctg ccagagattc tcttcgcca agtcagccaa ggccatcaca acaactccct gccacgttg cccttctccc aagagaacca agcagaacg catgcctggt tcaactcccg atctctctac catgtggcgg gattcctgct gccatgctg gtgatggggt ggtgctacgt gggggtagtgc cacaggttgc gccaggccca ggcgcgccct cagcggcaga aggcagtcag ggtggccatc ctggtgacaa gcatcttctt cctctgctgg tcacctacc acatcgtcat ctctctggac acctggcga ggtgaaaggc cgtggacaat acctgcaagc tgaatggctc tctccccgtg gccatcaca tgtgtgagtt cctgggacctg gccactgct gactcaacc catgctctac actttgcgg cgtgaaagt ccgcagtgac ctgtcgcggc tectgacgaa gctgggctgt accggccctg cctccctgtg ccagctcttc cctagtggc gcaggagcag tctctctgag tagagaaatg ccacctctct caccacgttc taggtccag tgtccctttt tattgtgctt ttctcttggg gcaggcagtg atgctggatg ctccttccaa caggagctgg gatectaagg gctcacctg gctaaagatg tccataggatg atcctcattt ggggtagcta taggaaccaa ccccatcttc tagaacatcc ctgccagctc ttctgccggc cctgggggcta ggtggagcc aaagcagctc aaaggcacag tgaaggctgt ccttaccat ctgaccccc ctgggctgag agaacctcac gcacctccca</p>	Homo sapiens

60	729	CXC Chemokine Receptor 5	NP_001707.1	<p> MNYPLTLEMD LEMLEDLFE LDRLDNYNDT SILVENHLCPA TEGPLMASFK AVFVPVAYS L P IFLLGVIGNV LVLVILERHR QTRSSTETFL FHIAVADLLL VFILPFAVAE GSVGWVLGTF LCKTVIALHK VNFYCSSLIL ACIAVDRYLA IVHAVHAYRH RRLSIHITC GTIWLVGFL ALPEILFAKV SQGHNNSLP RCTFSQENQA ETHAWFTSRE LYHVAGFLP MLVMGWCVYG VVHRLRQAO RPOQKAVRV AILVTSIFFL CWSPHYHIVIF LDTLARLKAV DNTCKLNGSL PVAITMCEFL GLAHCCLNPM LYTFAGVKFR SDLSRLTLTKL GCTGPASLCQ LFPSWRRSSL SESENATSLT TF ggacagagcc cagaaacaaa gacttcacgg acaaaagtccc ttggaaccag agagaagccg A ggatggaaac tccaacacc acagaggact atgacacgac cacagagttt gactatgggg atgcaactcc gtgccagaag gtgaacgaga gggccctttgg gggcccaactg ctgccccctc tgactcctt ggtatttgc attggcctgg ttggaacat cctgggtggtc ctggtccttg tgcaatacaa gaggtataaa aacatgacca gcatctacct cctgaacctg gccatttctg acctgctctt cctgttcacg ctccccctct agatcctct ctgggtttta ttacacaggc ttgtacagcg tttttggtga tgccatgtgt aagatcctct ctgggtttta ttacacaggc ttgtacagcg agatcttttt catcatcctg ctgacgattg acaggtacct ggcctcgtc cagccctgt ttgcttgcg ggcaggacc gtcaatttg gtgtcatcac cagcatcatc atttgggcc tgccatctt ggctccatg ccaggcttat acttttccaa gaccacatgg gaattcactc accacacctg cagccttcac ttctctcag aagcctacg agagtggag ctgtttcagg </p>	Homo sapiens
61	735	C-C Chemokine Receptor 1	NM_001295	<p> ggacagagcc cagaaacaaa gacttcacgg acaaaagtccc ttggaaccag agagaagccg A ggatggaaac tccaacacc acagaggact atgacacgac cacagagttt gactatgggg atgcaactcc gtgccagaag gtgaacgaga gggccctttgg gggcccaactg ctgccccctc tgactcctt ggtatttgc attggcctgg ttggaacat cctgggtggtc ctggtccttg tgcaatacaa gaggtataaa aacatgacca gcatctacct cctgaacctg gccatttctg acctgctctt cctgttcacg ctccccctct agatcctct ctgggtttta ttacacaggc ttgtacagcg tttttggtga tgccatgtgt aagatcctct ctgggtttta ttacacaggc ttgtacagcg agatcttttt catcatcctg ctgacgattg acaggtacct ggcctcgtc cagccctgt ttgcttgcg ggcaggacc gtcaatttg gtgtcatcac cagcatcatc atttgggcc tgccatctt ggctccatg ccaggcttat acttttccaa gaccacatgg gaattcactc accacacctg cagccttcac ttctctcag aagcctacg agagtggag ctgtttcagg </p>	Homo sapiens

62	735	C-C Chemokine Receptor 1	NP_001286.1	ctctgaaact gaacctcttt gggctggtat tgcctttgtt ggtcatgac atctgtaca caggattat aaagattctg ctaagacgac caaatgagaa gaaatccaaa gctgtcogtt tgatttttgt catcatgac atcttttttc tcttttgac ccctacaat ttgactatac ttatttctgt ttccaagac ttctgttcca cccatgagtg tgagcagagc agacatttg acctggctgt gcaagtgcg gagtgatcg cctacacgca ctgctgtgtc aaccagtg tctacgctt cgttggtgag aggttcgga agtacctcg cagttgttc cacaggcgtg tggtgtgca cctggttaa tggtccctt tctctccgt ggacaggctg gagagggtca gctccacatc tccctccaca ggggagcatg aactctctgc tgggttctga ctcagacct aggaggccaa cccaaaataa gcaggcgtga cctgccaggc acactgagcc agcagcctgg ctctccagc caggttctga ctctggcac agcatggagt cacagccact tgggatagag agggaatgta atggtggcct ggggttctg aggttcttg ggttcagtc ttctccatga acttctccc tggtagaag agatgaatg agcaaaacca atattccag agactgggac taagtgacc agagaaggc ttggactcaa gcaagatttc agatttga ccatagcat ttgtcaaca agtcacccac ttccactat tgcttgaca aaccaattaa acccagtagt ggtgactgt ggtccattc aaagtgagct cctaagccat gggagacact gatgtatgag gaatttctgt tcttccatca cctccccc cccgccacc tccactgcc aagaacttgg aaatagtgat ttccacagtg actccactct ggtccaca gccaatcagt agccagcatc tgctccctt tcactccac cgcaggattt gggctcttg aatcctggg aacatagaac tcatgacgga agagcttga cctaacgaga aatagaaatg gggaaactac tgcaggagt ggaactaaga agcccttag gaagaatttt tatatccact aaaaataaac aattcaggga gtgggctaag caggggcat atgaataaca tgggtgtctt cttaaaatag ccataaagg gagggactca tcaattccat ttacccttct ttctgacta ttttccagaa tctctctct tttcaagtgt ggtgatagt tggtagattc taatggcttt attgcagcga ttaataacag gcaaaaaggaa gcagggttg ttcccttct tttgttctt catctaagcc tctggtttt atgggtcaga gttccgactg ccatcttga ctgttcagca aaaaaaaa aaaaa QYRLKNMIS IYLNLAISD LFLFTLPFW IDYKLDDWV FGDAMCKILS GFYVTGLYSE METPNTTEDI DTTFEDYGD ATPCKVNER AFGAQLLPPL YSLVFFVIGLV GNILVVLV P IFFILLTID RYLAIVHAVF ALPARTVTFG VITSIIWAL AILASMPGLY FSKTQWETH HTCSLHPHE SLREWKLFOA LKLNLFGLVL PLLVMIICYT GIILKILRRP NEKSKAVRL IFVIMIIFFL FWTPYNLTIL ISVFQDFLFT HECEQSRHLD LAVQVTEVIA YTHCCVNPVI YAFVGERFRK YLRQLFHRRV AVHLVKWLPF LSVDRLEVS STSPSTGEHE LSAGE ttttcttct tctatcacag ggagaagtga aatgacaacc tcaatagata cagttgagac A ctttgtacc acatctact atgtagcagt gggcctgtct tgtgaaaaag ctgataccag agcaatgat gccagtttg tgccccctgt gtaactccct gtgttcaact tgggcctctt gggcaatgtg gtggtggtga tgaactctcat aaataacagg aggtccgaa ttatgaccaa catctacctg ctcaacctgg ccaattcgga ctgctcttc ctggtcacc ttccattctg gatccactat gtcagggggc ataactgggt ttttggccat ggcatgtga agctcctctc agggttttat cacacagct tgtacacgga gatcttttc ataactctgc tgacaatcga cagtagacctg gccattgtcc atgtgtgtt tgcctctga gccgggactg tcaatttgg tgtcatcacc agcatgtca cctggggcct ggcagtgtga cagctcttc ctgaatttat cttctatgag actgaagagt tgtttgaaga gactctttgc agtgcctttt acccagagga	Homo sapiens
63	737	C-C Chemokine Receptor 3	NM_001837	ctctgaaact gaacctcttt gggctggtat tgcctttgtt ggtcatgac atctgtaca caggattat aaagattctg ctaagacgac caaatgagaa gaaatccaaa gctgtcogtt tgatttttgt catcatgac atcttttttc tcttttgac ccctacaat ttgactatac ttatttctgt ttccaagac ttctgttcca cccatgagtg tgagcagagc agacatttg acctggctgt gcaagtgcg gagtgatcg cctacacgca ctgctgtgtc aaccagtg tctacgctt cgttggtgag aggttcgga agtacctcg cagttgttc cacaggcgtg tggtgtgca cctggttaa tggtccctt tctctccgt ggacaggctg gagagggtca gctccacatc tccctccaca ggggagcatg aactctctgc tgggttctga ctcagacct aggaggccaa cccaaaataa gcaggcgtga cctgccaggc acactgagcc agcagcctgg ctctccagc caggttctga ctctggcac agcatggagt cacagccact tgggatagag agggaatgta atggtggcct ggggttctg aggttcttg ggttcagtc ttctccatga acttctccc tggtagaag agatgaatg agcaaaacca atattccag agactgggac taagtgacc agagaaggc ttggactcaa gcaagatttc agatttga ccatagcat ttgtcaaca agtcacccac ttccactat tgcttgaca aaccaattaa acccagtagt ggtgactgt ggtccattc aaagtgagct cctaagccat gggagacact gatgtatgag gaatttctgt tcttccatca cctccccc cccgccacc tccactgcc aagaacttgg aaatagtgat ttccacagtg actccactct ggtccaca gccaatcagt agccagcatc tgctccctt tcactccac cgcaggattt gggctcttg aatcctggg aacatagaac tcatgacgga agagcttga cctaacgaga aatagaaatg gggaaactac tgcaggagt ggaactaaga agcccttag gaagaatttt tatatccact aaaaataaac aattcaggga gtgggctaag caggggcat atgaataaca tgggtgtctt cttaaaatag ccataaagg gagggactca tcaattccat ttacccttct ttctgacta ttttccagaa tctctctct tttcaagtgt ggtgatagt tggtagattc taatggcttt attgcagcga ttaataacag gcaaaaaggaa gcagggttg ttcccttct tttgttctt catctaagcc tctggtttt atgggtcaga gttccgactg ccatcttga ctgttcagca aaaaaaaa aaaaa QYRLKNMIS IYLNLAISD LFLFTLPFW IDYKLDDWV FGDAMCKILS GFYVTGLYSE METPNTTEDI DTTFEDYGD ATPCKVNER AFGAQLLPPL YSLVFFVIGLV GNILVVLV P IFFILLTID RYLAIVHAVF ALPARTVTFG VITSIIWAL AILASMPGLY FSKTQWETH HTCSLHPHE SLREWKLFOA LKLNLFGLVL PLLVMIICYT GIILKILRRP NEKSKAVRL IFVIMIIFFL FWTPYNLTIL ISVFQDFLFT HECEQSRHLD LAVQVTEVIA YTHCCVNPVI YAFVGERFRK YLRQLFHRRV AVHLVKWLPF LSVDRLEVS STSPSTGEHE LSAGE ttttcttct tctatcacag ggagaagtga aatgacaacc tcaatagata cagttgagac A ctttgtacc acatctact atgtagcagt gggcctgtct tgtgaaaaag ctgataccag agcaatgat gccagtttg tgccccctgt gtaactccct gtgttcaact tgggcctctt gggcaatgtg gtggtggtga tgaactctcat aaataacagg aggtccgaa ttatgaccaa catctacctg ctcaacctgg ccaattcgga ctgctcttc ctggtcacc ttccattctg gatccactat gtcagggggc ataactgggt ttttggccat ggcatgtga agctcctctc agggttttat cacacagct tgtacacgga gatcttttc ataactctgc tgacaatcga cagtagacctg gccattgtcc atgtgtgtt tgcctctga gccgggactg tcaatttgg tgtcatcacc agcatgtca cctggggcct ggcagtgtga cagctcttc ctgaatttat cttctatgag actgaagagt tgtttgaaga gactctttgc agtgcctttt acccagagga	Homo sapiens

64	737	C-C Chemokine Receptor 3	NP_001828.1	<p> t tacagtatat agctggaggc atttccacac tctgataatg accatcttct gtctcggtct cctctgctc gttatggcca tctgctacac aggaatcacc aaaacgctgc tgaggtgccc cagtaaaaa aagtacaaag ccatcgggt ctttttgc atcatggcg tgtttttcat ttctggaca cctacaatg tggctatct tctctctcc tatcaatcca tcttatttg aaatgactgt gagcgagaca agcatctgga cctggtcacc ctggtagaca agtgatgcg ctactccac tgctgcatga acccggtgat ctacgccttt ttggagaga ggttccggaa gtacctgcgc cacttctcc acaggcactt gctcatgcac ctgggcagat acatcccat ccttctagt gagaagctgg aaagaaccag ctctgtctct ccatccacag cagagccgga actctctatt gtgttttagg tcagatgcag aaaattgcct aaagaggag gaccaaggag atgaagcaaa cacattaagc ctccacact cactctaaa acagtcttc aaactccag t FGTTSYDDV GLLCEKADTR ALMAQFVPL YSLVFTVGLL GNVVVMILI P KYRRLRIMTN IYLLNLASD LLFLVTLPEW IHVVRGHNW FGHGMCKLLS GFYHTGLYSE IFFIILLTID RYLAIVHAVF ALRARTVTFG VTSIVTWGL AVLALPEFI FYETEELFEE TLCSALYPED TVYSWRHEHT LRMIFCLVL PLIVMAICYT GIITLLRCP SKKKYKAIRL IFVIMAVFFI FWTPYNVAIL LSSYQSILFG NDCERSKHLN LVMVTEVIA YSHCCMNPI YAFVGERFRK YLRHFFHRHL LMHLGRYIPE LPSEKLETS SVSPSTAEPE LSIVF cgggggtttt gatcttctc cctctctttt ttccccctt tcttctctt cctccctcc A tctctctatt cctctctct tctccctcag tctccacatt caacattgac aagtcctatc agaaaaagcaa gctgcttctg gttgggccc gacctgctt gaggagcctg tagagttaaa aaatgaaccc cactgatat gcatatacca cctcgatga agcatatata agcaattact atctgtatga aagtatcccc aagccttgca ccaagaagag catcaaggca ttgggggagc tcttctctgc cccactgtat tcttgggtt ttgtatttg tctgcttga aattctgtg tgggtctggt cctgttcaaa tacaagcggc tcaggtccat gactgatgtg tactgctca accttgccat ctggatctg ctctctgtg ttccccctt ttttggggc tactatgcag cagaccagt ggtttttggg ctaggctgt gcaagatgat ttctggatg tacttgggtg gcttttacag tggcatattc ttgtctatg tcatgagcat tgatagatag ctggcgatag tgacgcggt gtttctctg agggcaagga ccttgactta tgggtctac accagtgtg ctacatggtc agtggtgtg ttgcctccc tctggtcct tctgttcagc acttgttata ctgagcgcaa ccatacctac tgcaaaacca agtactctct caactccag acgtggaggg ttctcagctc cctggaaatc aacttctcg gattggtgat cctctaggg atcatgctg ttgttactc catgatcatc aggaccttgc agcatgttaa aatgagaag aagaacaagg cgttgaagat gatctttgccc gttgtggtcc tcttcttgg gttctggaca ccttacaaca tagtgcctt cttagagacc ctggtggagc tagaagtcct ttaggactgc accttgaaa gatacttga ctatgccatc caggccacag aaactctgc tttgttcc tgctgcctta atccatcat ctactttttt ctgggggaga aatttgcga gtacatccta cagctcttca aaactgcag gggccttttt gtgtctgccc aatactgtg gctcctccaa atttactctg ctgacacccc cagctcatct tacacgcagt ccaccatgga tcatgatctt catgatgctc tgtaggaaaa atgaatggtt gaaatgcaga gtaaatgaac tttccacat tcaagagctta ctttaaaatt ggtattttta gtaagagat ccttagacca ttgtcaggag gaaggcttac accacagtg gaaagacagc tctctatcct gcaggcagct ttttctctcc cactagacaa </p>	Homo sapiens
65	738	C-C Chemokine Receptor 4	NM_005508	<p> t tacagtatat agctggaggc atttccacac tctgataatg accatcttct gtctcggtct cctctgctc gttatggcca tctgctacac aggaatcacc aaaacgctgc tgaggtgccc cagtaaaaa aagtacaaag ccatcgggt ctttttgc atcatggcg tgtttttcat ttctggaca cctacaatg tggctatct tctctctcc tatcaatcca tcttatttg aaatgactgt gagcgagaca agcatctgga cctggtcacc ctggtagaca agtgatgcg ctactccac tgctgcatga acccggtgat ctacgccttt ttggagaga ggttccggaa gtacctgcgc cacttctcc acaggcactt gctcatgcac ctgggcagat acatcccat ccttctagt gagaagctgg aaagaaccag ctctgtctct ccatccacag cagagccgga actctctatt gtgttttagg tcagatgcag aaaattgcct aaagaggag gaccaaggag atgaagcaaa cacattaagc ctccacact cactctaaa acagtcttc aaactccag t FGTTSYDDV GLLCEKADTR ALMAQFVPL YSLVFTVGLL GNVVVMILI P KYRRLRIMTN IYLLNLASD LLFLVTLPEW IHVVRGHNW FGHGMCKLLS GFYHTGLYSE IFFIILLTID RYLAIVHAVF ALRARTVTFG VTSIVTWGL AVLALPEFI FYETEELFEE TLCSALYPED TVYSWRHEHT LRMIFCLVL PLIVMAICYT GIITLLRCP SKKKYKAIRL IFVIMAVFFI FWTPYNVAIL LSSYQSILFG NDCERSKHLN LVMVTEVIA YSHCCMNPI YAFVGERFRK YLRHFFHRHL LMHLGRYIPE LPSEKLETS SVSPSTAEPE LSIVF cgggggtttt gatcttctc cctctctttt ttccccctt tcttctctt cctccctcc A tctctctatt cctctctct tctccctcag tctccacatt caacattgac aagtcctatc agaaaaagcaa gctgcttctg gttgggccc gacctgctt gaggagcctg tagagttaaa aaatgaaccc cactgatat gcatatacca cctcgatga agcatatata agcaattact atctgtatga aagtatcccc aagccttgca ccaagaagag catcaaggca ttgggggagc tcttctctgc cccactgtat tcttgggtt ttgtatttg tctgcttga aattctgtg tgggtctggt cctgttcaaa tacaagcggc tcaggtccat gactgatgtg tactgctca accttgccat ctggatctg ctctctgtg ttccccctt ttttggggc tactatgcag cagaccagt ggtttttggg ctaggctgt gcaagatgat ttctggatg tacttgggtg gcttttacag tggcatattc ttgtctatg tcatgagcat tgatagatag ctggcgatag tgacgcggt gtttctctg agggcaagga ccttgactta tgggtctac accagtgtg ctacatggtc agtggtgtg ttgcctccc tctggtcct tctgttcagc acttgttata ctgagcgcaa ccatacctac tgcaaaacca agtactctct caactccag acgtggaggg ttctcagctc cctggaaatc aacttctcg gattggtgat cctctaggg atcatgctg ttgttactc catgatcatc aggaccttgc agcatgttaa aatgagaag aagaacaagg cgttgaagat gatctttgccc gttgtggtcc tcttcttgg gttctggaca ccttacaaca tagtgcctt cttagagacc ctggtggagc tagaagtcct ttaggactgc accttgaaa gatacttga ctatgccatc caggccacag aaactctgc tttgttcc tgctgcctta atccatcat ctactttttt ctgggggaga aatttgcga gtacatccta cagctcttca aaactgcag gggccttttt gtgtctgccc aatactgtg gctcctccaa atttactctg ctgacacccc cagctcatct tacacgcagt ccaccatgga tcatgatctt catgatgctc tgtaggaaaa atgaatggtt gaaatgcaga gtaaatgaac tttccacat tcaagagctta ctttaaaatt ggtattttta gtaagagat ccttagacca ttgtcaggag gaaggcttac accacagtg gaaagacagc tctctatcct gcaggcagct ttttctctcc cactagacaa </p>	Homo sapiens

Homo
sapiens

NP_005499.1

C-C
Chemokine
Receptor 4

66 738

gtccagcctg gcaagggttc acctgggctg aggcactcct cctcacacca ggcttgctg
caggcatgag tcagctctgat gagaactctg agcagtgctt gaatgaagtt gtaggtaata
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cagagtactg gctgatggag taaatcctga ccttttgctg tggcaaatgg gccccg
MNPTDIADTT LDESIYSNY IYESIPKPC KEKIKAFGEL FLPLYSIVF VFGLLGNV P
VLVLFKYKRL RSMTDVYLLN LAISDLLFV SLPFWGYAA DQWVFLGLC KMISWMLVG
FYSGIFFVNL MSIDRYLAIV HAVFSLRART LTYGVITSLA TWSVAVFASL PGFLFSTCYT
ERNHTYCKTK YSLNSTTWKV ISSLEINILG LVPLGIMLF CYSMIIRTLQ HCKNEKNKA
VMIFAVVVL FLGFWTPYNI VLFLETLVEL EVLQDCTFER YLDYAIQATE TIAFVHCCLN
PIIYFFLGEK FRKYILQLFK TCRGLFVLQ YCGLLQIYSA DTPSSSYTQS TMDHDLHDAL

Homo
sapiens

NM_001838

C-C
Chemokine
Receptor 7

67 741

gtgagacagg ggtagtgcga ggcggggcac agccttcctg tgtggttta ccgcccagag A
agcgtcatgg acctgggga accaatgaaa agcgtgctgg tgggtgctct ccttgtcatt
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68	741	C-C Chemokine Receptor 7	NP_001829.1	MDLGKPMKSV LVVALLVIFQ VCLQDEVD DYIGDNTTVD YTLFESLCSK KDVRNFKAWF P actcagctct tggctccact gggatggag gagaggacaa gggaaatgtc aggggagggg agggtgacag tggccgcccc agggccacgag cttgtctttt gttcttgtc acagggactg aaaacctctc cttcatgtct gcttcgatt cgttaagaga gcaacatttt acccacacac agataaagtt tcccttgag gaaacaacag ctttaaaag NP_001829.1 MDLGKPMKSV LVVALLVIFQ VCLQDEVD DYIGDNTTVD YTLFESLCSK KDVRNFKAWF P IPIMYSIIICE VGLLGNGLV ITYIYFKRLK TMTDTYLLNL AVADILFLIT LPFWAYSAAK SWFVGHFCK LIFAIYKMSF FSGMLLLCI SIDRYVAIVQ AVSAHRHRAR VLLISKLSCV GIWILATVLS IPELLYSDLQ RRSSEQAMRC SLITEHVEAF ITIQVAQWVI GFLVPELLAMS FCYLVIIRTL LQARNFERNK AIKVIIAVVV VFIVFQLPYN GVLQAQTVAN FNITSSTCEL SKQLNIAYDV TYSILACVRCC VNPFLYAFIG VKFRNDLFKL FKDLGCLSQE QLRQWSSCRH IRRSSMSVEA ETTTFESP	Homo sapiens
69	742	C-C Chemokine Receptor 8	AI733823	TTTAAATTAA AAAACTTTAT TGGAAATAGCA TGTTAGCAGC AGTGAACAGG GCATGGCACA A GAAGGTTTCC AAAACAAGTT TAGCATGAAG GATGCCATAT GCTGTTGCCA ACAACTAGAA CACGGTGACT AAAGACACAG TTCTGAAATGT CCAGCACAAAC CTCTGGCCTG CAACATATGTT CAGTGATGAT GATAACAAG GTGGTGACTT GGAAGGAATC CCTATGTCAA GTGAGAAAAA AAAATGATGT CTGACCTCCT TATATATGTA AAAAATATAC CTTCAGAGTC CGTCAGTAAG CTGGAAGAAG TGGATGTGA AGTTTNNAC ATCGATGATG GGTCTCCAGT TGTTCATCAA CCCATGGTGA AATAGCTGAA CGGTTCTGAA TCAAAAGGTGA TCCTAATAGT GAAGACATTA ACATTGCAGA AAAAGTGCCT ACAGATTATA TGGTGAATAT ACGTGATGGG CTTCTTGAAG GACTAGAGCA GTGTGTATTC AAAACAGAAC AAGAATCAC GTCAGTTTAT TGCCAAATAT GCTGTTGCCA ACACCTTAGAA CACAATGACT GGAGACACAG TTGTGCGTGC A CTGSCACAAC CTCCAGCCTG TGCTATGTT CAGTGATGAT GATGAGCAAG GTGGTGACTT TGAAGGATTT TGATATATCA GTGAAAAGAA ATGATATCTG ACCTCCTTAC ATATCTAAAA CATATACCTT CAAATCCAT CAATAAGCTG AAAGAATAG ATATCAAAGA ATATTTTAAAC ATCATTAATG AGGCTCCAGT TATTCATTCA TTGACCAATG GTAATATAGC TGAATGATT CTGAATCAAG CTGATTATGA TAATAGTGAT GATGAAGATG ATGTTAATAC TGCAGAAAAA GTGCTATATA ATGACACAGT GAAAA	Homo sapiens
70	742	C-C Chemokine Receptor 8	LG6770	ctccagagag gctgctgctc attgagctgc actcacatga ggatacacagac tttgtgaaga A aggaattggc aacactgaaa cctccagaac aaaggctgtc actaagggtcc cgctgccttg atggattata cactgacct cagtgtaga cagtgacct actactacta cctgatatac ttctcaagcc cctgtgatgc ggaacttatt cagacaaatg geaagttgct ccttgctgtc ttttattgcc tctgtttgt attcagtctt ctgggaaaca gectgggtcat cctgggtcctt gtggtctgca agaagctgag gagcatcaca gatgtatacc tcttgaacct ggcctgtctt gacctgctt ttgtctctc cttcccttt cagacctact abctgctgga ccagtgggtg tttgggactg taatgtgcaa agtgggtgctt ggccttttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtgtggac aggtacctgg ctgtgtgtcca tgcctgtgtat gccctaaaag tgaggacgat caggatgggc acaacgtgtt gectggcagt atggctaacc gccattatgg ctacctccc attgctagt ttttaccagt tggcctctga agatgggtgtt ctacagtggt attcatctta caatcaacag actttgaagt ggaagatctt caccaacttc aaaatgaaca ttttaggctt gttgatccca ttcacctact ttatgttctg ctacattaaa	Homo sapiens
71	742	C-C Chemokine Receptor 8	NM_005201	ctccagagag gctgctgctc attgagctgc actcacatga ggatacacagac tttgtgaaga A aggaattggc aacactgaaa cctccagaac aaaggctgtc actaagggtcc cgctgccttg atggattata cactgacct cagtgtaga cagtgacct actactacta cctgatatac ttctcaagcc cctgtgatgc ggaacttatt cagacaaatg geaagttgct ccttgctgtc ttttattgcc tctgtttgt attcagtctt ctgggaaaca gectgggtcat cctgggtcctt gtggtctgca agaagctgag gagcatcaca gatgtatacc tcttgaacct ggcctgtctt gacctgctt ttgtctctc cttcccttt cagacctact abctgctgga ccagtgggtg tttgggactg taatgtgcaa agtgggtgctt ggccttttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtgtggac aggtacctgg ctgtgtgtcca tgcctgtgtat gccctaaaag tgaggacgat caggatgggc acaacgtgtt gectggcagt atggctaacc gccattatgg ctacctccc attgctagt ttttaccagt tggcctctga agatgggtgtt ctacagtggt attcatctta caatcaacag actttgaagt ggaagatctt caccaacttc aaaatgaaca ttttaggctt gttgatccca ttcacctact ttatgttctg ctacattaaa	Homo sapiens

72	C-C Chemokine Receptor 8	742	NP_005192.1	<p>atcctgcacc agctgaagag gtgtcaaaac cacaacaaga ccaaggccat caggttggtg</p> <p>ctcattgtgg tcattgcac tttacttttc tgggtcccat tcaacgtggt tcttttcttc</p> <p>acttccttgc acagtatgca catcttggat ggatgtagca taagccaaca gctgacttat</p> <p>gccaccatg tcacagaaat catttccctt actcactgct gtgtgaaccc tgttatctat</p> <p>gcttttggg gggagaagt caagaaacac ctctcagaaa tatttcagaa agtttgcagg</p> <p>caaatcttca actacctagg aagacaaatg cctagggaga gctgtgaaaa gtcatcatcc</p> <p>tgccagcagc actcctccc ttctccagc gtagactaca ttttgtgagg atcaatgaag</p> <p>actaaatata aaaaacattt tcttgaatgg catgctagta gcagtgcagca aaggtgtggg</p> <p>tgtgaaaggt ttccaaaaaa agttcagcat gaaggatgcc atatatgttg ttgccaacac</p> <p>ttaaaaacaca atgactggag acatagtgtt gcatgcctgg cacaacatca agcctgtgat</p> <p>tgtgtttatt gatgatgttg aacaagtggg aactttaaag gattctgtat gccaaagtga</p> <p>aaaaaagat gctgcacctc cttcatatgc aaaaatatac cttcagagac tgtcagtagg</p> <p>ctggaagaag tggatattga agttttgaca tcaatgatga ggctccagtt gtctatgcac</p> <p>tgactgatgg tgaatggct ggagtgttc tgaatcaagg tgattgtgat tatagtgaca</p> <p>atgaagatga tgcattaat actgcataaa aagtgccctg agatgacatg gtgaaaaat</p> <p>ttgacaggct tatggaagga ctacagcagc acgcattcat aacagaacaa gaaattatct</p> <p>cagcttataa aatcaaacag agacttctag acaaaaaacca ttgttgatga ggcagatgcc</p> <p>tttagaagag acgtttaaaa gccatcaaac acaatgcctc atcttccctg gaggacccac</p> <p>ttctgatcc ctcaactgtg tctgatgttt ctctctcatg agaaaaataa aataaaaaat</p> <p>aaaaaaatat atattggtat gtaactacag gaaaaaata aaaaaatat agtgacagt</p> <p>aacotttcaa tcaaaactca gtatcataag tagagactga aaacttgccg ttattgatgg</p> <p>ttgttattaa cagctgatac aggtattctg ctgatgctac tgcctgcctag ttaccatgaa</p> <p>cacgtttttt cactattaat ggtgcgtcat attttttact tttaagtact tacgtgtgag</p> <p>taagtgtaa aaaatgatg cttatcagta gtaatcaatga ttactcaat atctgaatca</p> <p>cttgatttca gaaccatttc agctgtttca ccatcagtc aatgaataaca gctcattga</p> <p>tgtaaaaaac tcaaatatcc acttctttca gctcactgta gactctggaa gtatactttt</p> <p>tgcatatgta aggaagtcag atttttttt</p>	Homo sapiens
73	CXC Chemokine Receptor 3	752	NM_001504	<p>mdytidlsvt tvtdyyypdi fsspcdaeli qtnsklllav fycllfvfsl lgnslvllvl</p> <p>vvccklrsit dvylnlals dllefvsfpe qtyylldqww fgtvnckvvs gfyylgfyss</p> <p>mfefilmsvd rylavhvay alkvtirmg ttllclawltl atmapipll fyqvasedgv</p> <p>lqcyfynqq tlkwkiftnf kmnlglllp ftipmfcyik ilhqlkrcon hntkairlv</p> <p>lviviasllf wvpennvllf tslhsmhild gcsisqqlty athvteiiisf thccvnpviy</p> <p>afvgekfkxh lseifqkscs qifnylgrqm presceksss cqohssrsss vdyil</p> <p>ccaaccaca gcaaaaagc agaggggacg gcagcacacc acccagcagc cagagcacca</p> <p>gcccagccat ggtccttgag gtgagtgcac accaagtgtc aaatgacgcc gaggttgccg</p> <p>ccctcctgga gaactcagc tcttctatg actatggaga aaacagagat gactcgtgct</p> <p>gtactcccc gccctgcca caggacttca gcttgaactt cgaccgggcc ttctcgccag</p> <p>ccctctacag cctcctcttt ctgctggggc tgctggggca cggcgcggtg gcagccgtgc</p> <p>tgctgagccg gcggacagcc ctgagcagca ccgacacctt ctgctccac ctactgttag</p> <p>cagacacgct gctggtgctg acactgccg tctgggagc ggacgtgcc gtccagtggg</p> <p>tctttggctc tggcctctgc aaagtggcag tggcctctt caacatcaac ttctacgcag</p>	Homo sapiens

74	752	CXC Chemokine Receptor 3	NP_001495.1	<p>gagccctcct gctggcctgc atcagctttg accgctacct gaacatagtt catgccaccc agctctaccg ccggggggccc ccggcccgcg tgaccttcac ctgcctggct gtctgggggc tctgcctgct ttctgcccct ccagacttca tcttctctgc ggccaccac gacgagcgcc tcaacgccac ccaactgcaa tacaacttc ccgacgggt ccgacgggt ctgcgggtgc tgagctgggt ggctggcttt ctgctgccc tgcctactgc ggctactgc tatgccaca tccctggcct gctgctggtt tccaggggcc agcgcgctt gcgggccaat cggctgggtg tggtggtcgt ggtggccttt gccctctgct ggaccccta tccctggtg gtgctgggtg acatcctcat ggacctggc gcttggccc gcaactgtg ccgagaaagc aggtagagc tgcccaagtc ggtcacctca ggctgggct acatgcactg ctgcctcaac ccgctgctct atgcctttgt aggggtcaag ttccgggagc ggatgtggat gctgctcttg cgcctgggct gcccacaaca gagaggctc cagaggcagc catcgtcttc ccgccgggt tcatcctggt ctgagacctc agaggcctc tactgggct tgtgaggccg gaatccgggc tcccccttcg cccaagctct gacttcccgc cattccagc tctccctcc cctgcgggc tctggctctc cccaatatcc tgcctcccg gactcactg cagcccccag accaccaggt ctcccgggaa gccacctcc cagctctgag gactgcacca ttgctgctcc ttactgcca agcccatcc tgccggccga ggtggctgccc tggagcccca ctgccccttc catttggaac ctaaaacttc atcttcccca agtgcgggga gtacaaggca tggcgtagag ggtgctgccc catgaagcca cagccaggc ctccagctca gcagtactg tggccatggt ccccaagacc tctatatctg ctcttttatt ttatgtctc aaatcctgct taaaactttt caataaaca gctcgtcagg accaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa</p>	Homo sapiens
				<p>MPLEVDHQV LNDAEVALL ENFSSSYDG ENESDSCCTS PCPQDFSLN FDFRFLPALY P SLLELLGLL NGVAVALLS RRTALSSTD FLHLIAVADT LLVTLPLWA VDAVQWVFG SGLCKVAGAL FNINFYAGAL LLACISFDY LNIVHATQLY RRGPPARVTL TCLAWGLCL LFALPDFIFL SAHDERLNA THQYNFPQV GRTALRVQL VAGFLLPLV MAYCYAHILA VLLVSRGQRR LRAMRLVVV VVAFALCWT P YHLVVLVDIL MDLGALARNC GRESRDVAK SVTSLGLYMH CCLNPLLYAF VGVKFRERMW MLLRLGCPN QRLQRPSS SRRDSSWSET SEASYSGL</p>	
75	753	CXC Chemokine Receptor 4	NM_003467	<p>gtttgttggc tgcggcagca ggtagcaag tgacgccag ggctgagtg ctccagtagc A caccgcatct ggagaaccag cggttaccat ggaggggatc agtatataca ctccagataa ctacaccag gaaatgggct caggggacta tgactccatg aaggaacctt gtttccgtga agaaaatgct aatttcaata aaatcttctt gccaccatc tactccatca tcttcttaac tgccattgtg ggcaatggat tggctcctct tggctcctct taccagaaga aactgagaag catgacggac aagtacaggc tgcacctgtc agtggccgag ctctcttttg tcatcacgt tcccttcttg gcagtgtgat ccgtggcaa ctggtacttt gggaacttcc tatgcaaggc agtcctatgc atctacacag tcaacctta cagcagtgtc ctatccctgg ccttcatcag tctggaccgc tacttgcca tgcctcacgc cacaacagt cagaggccaa ggaagctggt ggctgaaaaa gtggtctatg ttggcgcttg gatccctgcc ctctgctga ctattcccc cttcatcttt gccaacgtca gtgaggcaga tgacagatat atctgtgacc gtttctaccc caatgacttg tgggtggttg tgttccagtt tcagcacatc atggttgccc ttatctgccc tggtattgtc atctgtctct gctattgcat tatcatctcc aagctgtcac actccaaggg ccaccagaag cgcaaggccc tcaagaccac agtcatctct atctggcctt tcttgcctg</p>	Homo sapiens

76 CXC
Chemokine
Receptor 4

NP_003458.1

753

76

Homo
sapiens

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LYAFLGAKFK TSAQHALLTSV SRGSSLIKLS KGRGEGHSSV STSESSEFHS SS
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77 Complement
Component 3a
Receptor 1

755

77

Homo
sapiens

78 Complement 3a Component 1 Receptor 1 NP_004045.1 MASFSAEITNS actgtgtga

Homo sapiens

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TV

79 Complement 5a Component 1 Receptor 1 NM_001736

Homo sapiens

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tgcaaggtga acacttctt ctaggagga cctcccacc cccaccccc cccacacac
catcttcca tccaggctt ttgaaaaaca aacagaaacc cgtgtatctg ggatatttcc
atatggcaat agtgtgaac agggaaactca gaatacagc aagtagaaag attctcgctt
aaaaaaatgt atttatttta tggcaagttg gaaatatgt aactgggaa tcataaagttc
tttgggacaa aacagaagtc catggagtta tctaagctct tgaagtga ttaattttaa
aaagaaaaat aggtgagag cagtggctca cgcctgtaat cccagaaatt tgggagggcta
aggtgggtgg atcacctgag gtcaagagtt ccagaccagg ctggccagca tgggtgaaacc

80 Complement NP_001727.1 758 Component 5a
Receptor 1

Homo sapiens

ccgtctgtac taaaaataca aaaaattaac tgggcatgg agtgggtgcc tgtaatcccc
gctacttggg aggtgaggt gggagaattg ctcgaaacctt ggaggtggag gttgtgtga
gccatgatcg caccactgca ctctagctcg ggtgaccgag ggaggtctctg tctcaaaagc
aaagcaaaaa caaaacaaa aacaccta aaacctcag tttgtttgtt actttgtttt
taaattatgc tttctatttt gagatcattg caaactcaac acaattgtaa gtaatgatac
agagggatct tgtgtaccct tcacccagcc tccccaatg gcaacatctt gcaaaactac
aatgtagtct cataaccagg atattgacat tgatacaggt aagatacagg acatctcat
caccacagg atccccagg tggccacttc cctccacccc cacaccccag ccgtgtccct
aacccctggc aaccaggaaat ccactctcca tttctataat gttgtcattt caagaatggt
attcaatgga atcatatagt atgtaaccct ttttgagcct aaaaaaaa gtatacatga
ctttaatgag gaaaaataaa atgaatattg aaaaaaaa ctttagag

MNSFNYYTPD YGHYDDKDTL DLNTPVDKTS NTLRVPDILA LVIFAVFLV GVLGNALVVM P
VTAFEAERTI NAIWFLNLA VADFLSCLALP ILFTSIVQHH HWPFGGAACS ILPSLILLNM
YASILLIATI SADRFLLVFK PIWCQNERGA GLAWIACAVA WGLALLLTIP SFLYRVVREE
YFPPKVLGV DYSHDKRRER AVAIVRLVLG FLWPLLLTLTI CYTFILLRTW SRRATRSTKT
LKVVAVVAS FFIFWLPYQV TGIMMSFLEP SSPTFLLLNK LDSLCVSEAY INCCINPIIY
VVAGQGFQGR LRKSLPSLLR NVLTEESVVR ESKSFRSTV DTMAQKTQAV

81 Calcitonin NM_005795 767 Receptor-
like Receptor

Homo sapiens

gcacgaggga acaacctctc tctctscagc agagagtgtc acctcctgct ttaggacctt A
caagctctgc taactgaatc tcatctaat tgcaggatca cttgcacaaag ctttccatct
ttcccacctt gcttgtgggt aaatctcttc tgcggaatc cagaaagtaa agttccatcc
tgagaatatt tcacaaagaa tttctttaag agctggactg ggtcttgacc cctggaattt
agaaaaattct taaagacaat gtcaaatatg atccaagaga aaatgtgatt tgagtcgga
gacaattgtg catatcgtct aataataaaa acccatacta gcctatagaa acaaatattt
gaataataaa aaccatact agcctataga aaacaatatt tgaagatttg ctaccactaa
aaagaaaact actacaactt gacaagactg ctgcaaaact caatttggta ccacaaactg
acaagggttg tataaaaca gattgctaca acttctagtt tatgtttatc agcatatttc
atttgggctt aatgatggag aaaaagtga cctgtattt tctggttctc ttgccttttt
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ttactagaaa taaatcatg acagctcaat atgaatgta ccaaaagatt atgcaagacc
ccattcaaca agcagaaggc gtttactgca acagaacctg ggatggatgg cttctgctgga
acgatgttg agcaggaaat gaatcaatgc agctctgcc tgattacttt caggactttg
atccatcaga aaagttaaca aagatctgtg accaagatgg aaactgggtt agacatccag
cagcaacacag aacatggaca aatataccc agtgaatgt taacaccccac gagaaagtga
agactgcact aaatttgttt tactgacca taattggaca cggatttctct attgcatcac
tgcttatctc gcttggcata tcttttatt tcaagagcct aagttgcccag aggtattacct
tacacaaaaa tctgttcttc tcatttgttt gtaactctgt tgaacaatc attcacctca
ctgcagtggc caacaaccag gccttagtag ccacaaatcc tgttagttgc aaagtgtccc
agttcattca tctttacctg atgggctgta attacttttg gatgctctgt gaaggcatctt
acctacacac actcattgtg gtggccgtgt ttgcagagaa gcaacattta atgtgtgatt
atttctctgg ctggggattt ccaatgattc ctgcttctgt acatgccatt gctagaagct
tatattacaa tgacaattgc tggatcagtt ctgatccca tctcctctac attatccatg

82	767	Calcitonin Receptor- like Receptor	NP_005786.1	<p>gcccgaattg tgctgcttta ctggtgaatc ttttttctt gttaaattt gtacgcgttc tcatcaccaa gtaaaagt acacaccaag cggaatccaa tctgtacatg aaagctgtga gagctactct tatcttggtg ccattgcttg gcattgaatt tgtgctgatt ccatggcgac ctgaaggaaa gattgcagag gaggtatag actacatcat gcacatcctt atgcacttcc agggctcttt ggtctctacc atttctgct tctttaatgg agaggttcaa gcaattctga gaagaaactg gaatcaatc aaaaatccaa ttggaacacag cttttccaac tcagaagctc ttcgtagtgc gtcttacaca gtgtcaacaa tcagtgaatg tccaggttat agtcatgact gtcctagtga acacttaaat ggaataagca tccatgatat tgaataatgtt ctcttaaaac cagaaaattt atataattga aatagaagg atggttctgt cactggttgg tgccttctct aactcaagga cttggaccca tgactctgta gccagaagac ttcaatatta aatgactttg gggaatgtca taaagaagag ccttcacatg aatattagtag tgtgttgata agagtgtaac atccagctct atgtgggaaa aaagaaatcc tggtttgtaa tgtttgtcag taaatactcc cactatgctt gatgtgacgc tactaaacctg acatcaccaa gtgtggaatt ggagaaaaac acaatcaact ttctgagct ggtgtaagcc agttccagca caccattgat gaattcaaac aaatggctgt aaaactaac atacatgttg ggcattgatc tacccttatt cscaccaaga gaactagcta aggtctataa acatgaaggg aaaaattagct tttagtttta aaactcttta tcccatcttg attggggcag ttgacttttt ttttttccca gagtgcgta gtccctttttg taactaccct ctcaaatgga caataccaga agtgaattat cctgtctggc tttcttttct ctatgaaaag caactgagta caattgttat gatctactga tttgtctgaca catcagttat atcttgtggc atatccattg tggaaactgg atgaacagga tgtataatat gcaactttac ttctatatca ttaggaaaac atcttagttg atgtacaaa acacttctgc aacctcttcc tgtcttacca aacagtggga gggaaatcct agctgtaaat ataaattttg cctttccatt tctactgtat aaacaaatta gcaatcattt tatataaaga aaatcaatga aggattttctt atcttcttgg aattttgtaa aaagaaattg tgaataatga gctgtgaaat actccattat tttattttat agtctcaaat caataacata caactatgt aatttttaa gcaaatatat aatgcaacaa tgtgtgtatg ttaatatctg atactgtatc tgggctgatt ttttaataa aatagagtct ggaatgct</p>	Homo sapiens
83	832	Cannabinoid Receptor 1	NM_001840	<p>MEKKTLYFL VLPFFMILV TAELESPED SIQLGVTRNK IMPAQYECYQ KIMQDPIQQA P EGVYCNRTWD GWLQNDVAA GTESMQLCPD YRQDFDPSEK VTKICDDQDN WFRHPASNRT WTNTYQCNVN THEKVKTALN LFYLTIIHG LSIASLLISL GIFFYFKSL SQRITLHKNL FFSFVCNSW TIHILTAVAN NQALVATNPV SCVVSQFIHL YLMGCNYFWM LCEGIYLLHTL IVVAVFAEKQ HLMWYFFLW GFPLIPACIH AIARSLYND NCWISSDTHL LYIHGPICA ALLVNLFFLL NIVRVLITKL KVTHQAESNL YMKAVRATLI LVPILGIEFV LIWRPEGKI AEEVYDYIMH ILMHFQGLLV STIFCFNGE VQAILRRWN QYKIQFGNSF SNSEALRSAS YTVSTISDGP GYSHDCPSEH LNKSIHDIE NVLLKPENLY N</p> <p>ggggactacg gagagctctg caggagccg aggcccccgc ccgggcccaag ggagcttctg A tcccaggac cagggatgc gaaggattg cccctgtgg gtcactttct cagtcatttt gagctcagcc taatcaaga ctgaggttat gaagtcgac ctagatggcc ttgcagatac cacctccgc accatcaca ctgacctct ctgagtgggc tcaatgaca ttcagtacga agacatcaa ggtgacatgg catccaaatt aggtacttct ccacagaaat tccctttaac ttcctttagg ggaagtccct tccaagagaa gatgactgag ccagacaacc ccagctagatg</p>	Homo sapiens

84	Cannabinoid Receptor 1	NP_001831.1	<p> cccagcagac caggtgaaca ttacagaatt ttacaacaag tctctctcgt ccttcaagga gaatgaggag aacatccagt gtggggagaa cttcatggac atagagtgtt tcatggtcct gaacccacgc cagcagctgg ccattgcagt cctgtccctc acgctgggca ccttcacggt cttgagagac ctctctgtgc tgtgcgtcat cctccactcc cgcagcctcc gctgcaggcc ttcttaccac ttcatcgcca gctggcggtt ggcagacctt ctggggagtg tcatttttgt ctacagcttc attgacttcc acgtgttcca ccgcaaatg agccgcaacg tgtttcttgt caaatgggt ggggtcacgg cctccttcac tgcctccgtg ggcagcctgt tcttcacagc catgcacagg tacatatcca ttacacaggc cctggcctat aagaggattg tcaccaggcc caaggccgtg gtggcgtttt gctgatgtg gaccatagcc attgtgatcg ccgtgctgcc tctcctgggc tggaaactgc agaaactgca atctgtttgc tcagacattt tcccacacat tgatgaaacc tactgatgt tctggatcgg ggtcaccagc gtactgcttc tgttcatcgt gtatgcgtac atgtatatc tctggaaggc tcacagccac gccgtccgca tgcattcagcg tggcacccag aagagcatca tcatccacac gtctgaggtt gggaaagttac aggtgacctg gccagaccaa gccgcgatg acattaggtt agccaagacc ctggtcctga tctgtgtggt gttgatcatc tctgtgggcc ctctgcttgc aatcatggtg tatgatgtct ttgggaagat gaacaaagtc attaagacgg tgtttgcatt ctgcagtatg ctctgcctgc tgaactccac cgtgaacccc atcatctatg ctctgaggag taaggacctg cgacacgctt tccggagcat gtttccctct tgtgaaggca ctgctgcagc tctgataaac agcatggggg actcggactg ctgcacacaa cagcaaaaa atgcagccag tgttcacagg gccgcagaaa gctgcacata gagcacggtc aagattgcca agttaacat gtctgtgtcc acagacacgt ctgccgaggg tctgtgagtc tgatgcctcc ctggcagcac agaaaaagaa ttttttttt taagctcaaa atctagaaga gtctattgtc tcttgggta tattttttta actttaccat gctcaaatgaa aaggtgattg ccaatgtca cttatttgc tagtttccgt ttgggctaata ctccgggggt tctgaggaaa ccttt </p>	Homo sapiens
85	Cannabinoid Receptor 2	NM_001841	<p> MKSILDGLAD TFRITITD LTVGSNDIQY EDIKGDMASK LGYFPQKFPL TSFRGSPFQE P KMTAGDNPQL VPADQVNITE FYNKSLSEFK ENEENIQCGE NFMDEIECFM LNPQQLAIA VLSLTIGTFT VLENLLVLCV ILHSRSLRCR PSYHFIGSLA VADLLGSVIF VYSFIDFHV HRKDSRNVFL FKLGGVTASF TASVGSLELT AIDRYISIH R PLAYKRIVTR PKAVVAFCLM WTIAIVIAVL PLLGNCEKL QSVCSDFPH IDETYLMFWI GVTSLVLLFI VYAYMYILWK AHSHAVRMIO RTQKSIIH TSEDGKVQVT RPDQARMDIR LAKTIVLILV VLLICWGPLL AJMVYDVFGK MNKLIKTVFA FCSMLCLINS TVNPIIYALR SKDLRHAFRS MFPSCGTAQ PLDMSMGDS D CLHKHANNA SVHRAAESCI KSTVKIAKVT MSVSTDTSAE AL caggtcctcg gagaggacag aaaaacactg gactcctcag cccccggcag ctcccagtc A ccagccacc ccaacacaa ccaaacgctt ctagacaagc tcaagtggat ctgaaggcc caccctatg aggaatgctg ggtgacagag atagccaatg gctccaagga tggcttggat tccaacctta tgaaggatta catgatcctg agtggctccc agaagacagc tgtgtctgtg ttgtgacac tctctggcct gctaatgccc cttgagaacg tggctgtgct ctatctgac ctgtcctccc accaactccg ccggaagccc tcatcctgt tcaattggcag cttggctggg gctgacttcc tggccagttg ggtctttgca tgcagctttg tgaatttcca tgttttccat ggtgtggatt ccaaggctgt cttctgtctg aagattggca cgtgactat gacattcaca gcctctgtgg gtagcctcct gctgaccgcc attgaccgat acctctgctt ggcctatcca </p>	Homo sapiens

86	833	Cannabinoid Receptor 2	NP_001832.1	MEGWVTEIA NGSKDGLDSN PMKDYMLSG PQKTAVALIC TLGLLSALE NVAVLYLILS P SHQLRRKPSY LFISGLAGAD FLASVVFACS FVNPHVFHGV DSKAVFELLKI GSVTMTFTAS VGLSLLTAID RYLCIRYPPS YKALLTRGRA LVTIGIMWVL SAIIVSYLPLM GTTCCPRPCS ELFPLIPNDY LLSWLLFIAF LFSGIIITYG HVLWKAHQHV ASLSGHQDRQ VPGWARMRLD VRLAKTLGLV LAVLLICWFP VLALMAHSLA TTLSDDQVKA FAFCSMLCLI NSMVNPVIYA LRSGEIRSSA HHCLAHWKKC VRGLGSEAKE RAPRSSVTET EADGKITPWP DSRDLDSLDC	Homo sapiens
87	922	Leukocyte Antigen CD97	NM_001784	agcctgtgga gacgggacag cccctgtcca ctaactcttt cccctgccgc tccctgccgc A agctccaacc atgggaggcc ggcctcttct cgcattctgt gtctggctga ctctgccggg agctgaaacc caggactcca ggggctgtgc cgggtgtgtc cctcagaact cctcgtgtgt caatgccacc gccctgtcgt gcaatccagg gttcagctct tttcttgaga tcatcaccac cccagcggag acttgtgacg acatcaacga gtgtgcaaca ccgtcgaaaag tgtcatgcgg aaaattctcg gactgtgga acacagaggg gactacagc tgcgtgtgca gcccgggata tgagcctgtt tctggggcaa aaacattcaa gaatgagagc gagaacacct gtaagatgt ggacgagtgc agctccgggc agcatcagtg tgacagctcc accgtctgt tcaacacct gggttcatac agctgcgcgt gccgcccagg ctggaagccc agacacggaa tcccgataa ccaaaaggac actgtctgtg aagatatgac tttctccacc tggaccccg cccctggagt ccacagccag acgctttccc gattctcga caagttccag gacctgggca gactccaa gacaagctca gccagagtca ccatccagaa tgtcatcaa ttggtggatg aactgatgga agctcctgga gacgtagagg cctggcgcc cctgtcccg accctcatag ccacccagct gctctcaaac cttgaagata tcatgaggat cctggccaag agcctgccta aagggccctt	Homo sapiens

88	922	Leukocyte Antigen CD97	NP_001775.1	<p>cacctacatt tccccttcga acacagagct gacctgatg atccaggagc gggggggacaa gaagtcaact atgggtcaga gcagcgacg catgaagctg aattgggctg tggcagctgg agccgaggat ccaggccccg ccgtggcggg catcctctcc atccagaaca tgacgacatt gtgggccaat gctccttga acctgcattc caagaagcaa gccgaactgg aggagatata tgaaagcagc atccgtgtg tocaactcag accctctctt gccgtcaact ccattctttct gagccacaac aacaccaagg aactcaactc cccctctctt ttgcctttct cccaccttga gtcctccgat ggggagcgcg gaagagaccc tccctgccaag gacgtgatgc ctggggccacg gcaggagctg ctctgtgctt tctggaagag tgacagcgac aggggagggc actggggccac cgaggtctgc caggtgctg gcagcaagaa cggcagcacc acctgccaat gcagccacct gagcagcttt acgatacctta tggctcatta tgacgtggag gactggaagc tgacctgat caccagggtg ggaactggcg tgtcactctt ctgctgctg ctgtgcaccc tcaacttctc gctgtgctg cccatccacg gctgcgcac caccatacac ctgcacctct gcacttgcct cttctgtggc tccacctct tccctggcgg catcgagaac gaaggcggcc aggtggggct gcgtgcccgc ctggtggcgg ggtgctgca ctactgttct tgggtgcgc gtgttccaa gagctcgaa ggctggagc tctactttct tgggtgcgc gtgttccaa gccagggctc gagtaacgc tggctctgccc tgatcggtc tggcgtgccc ctgctcatcg tggcgtctc ggctggccatc tacagcaagg gctacggcgg cccagatcac tgggtgttg actttgagca ggcttctctc tggagcttct tgggacctgt gaccttctc attttgtgca atgtgtcat ttctgtgact acogtctgga agctcactca gaagtcttct gaaatcaatc cagacatgaa gaaattaaag aaggcgaggg cgctgacctc caggccatc aggttggctc tccgtttggg ctgcacctgg gtctttggcc tgttcatctt cgacgatcgg agottgggtgc tgacctatgt gtttaccatc ctcaactgccc tgagggcgcc ctctctctac ctgtgacct gctgtctcaa caagaagggtt cgggaagaat accggaagtg ggctgccta gttgctgggg ggagcaagta ctcagaattc acctccacca cgtctggcac tggccacaat cagaccggg cctcaggggc atcagagtc ccacatagaa ggcgcatggt tctggacggc ccagcagctc ctgtggccac agcagctttg tacacgaaga ccacacatcc tccctctgct caccactcta ctccctccac cctccctccc tgatcccggtg tgccaccagg agggagtggc agctatagtc tggcaccaaa gtccaggaca cccagtgggg tgagatcgga gccactggtc ctgtgctgg ctgctctctc gtccacactt gtgaccagg gtggggacag gggctggccc agggctgcaa tgcagcatgt tgccctggca cctgtggcca gtactcggga cagactaagg gcgctgttcc catcctggac ttttcctctc atgtctttgc tgcagaactg aagagactag gcgtggggc tcaacttccc tcttaagcta agactgatgt cagaggcccc atggcgaggc ccttggggc cactgcctga ggctcacggt acagaggcct gcctgctctg gcggggcagg aggttctcac tgtgtgaaag gtttagagac ttgtgtaagt tgtttttatc tgttaaaatt tttcagtgtt gacacttaaa attaaacaca tgcatacaga aaaaaaaa aaaaaaaa a</p>	<p>TCDDINECAT PSKVSCKKFS DCWNTEGSDY CVCSPGVEPV SGAKTFKNES ENTQDQVDEC SSGQHQCDSS TVCFNTVGSY SCRCRPGWKP RHGIPNNQKD TVCEDMTFST WTPPPGVHSQ TLSRFFDKVQ DLGRDSKTSS AEVTIQNVIK LVDELMEAPG DVEALAPPVR HLIATQLLSN LEDIMRIIAK SLPKGPFYI SPSNTELTIM IQERGDKNVT MGQSSARMKL NWAVAAGAE PGPAVAGILS IQNMTTILAN ASLNLSKKQ AELEIYEES IRGVQLRRLS AVNSIFLSHN</p>	<p>Homo sapiens</p>
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89	941	EMR1 Hormone NM_001974 Receptor	NTKELNSPIL FAFSHLESSD GEAGRODPPAK DVMPGPRQEL LCAFWKSDSD RGGHWATEVC QVLGSKNGST TCQCSHLSSE TILMAHYDVE DWKLTILTRV GLALSFLCLL ICILTFLLVR PIQGSRTTIH LHLICICLVG STIFLAGIEN EGGQVGLRCR IVAGLLHYCF LAAFCWMSLE GLELYFLVVR VFQGGGLSTR WLCLIGYGRP LLIVGVSAAI YSKGYGRPRY CWLDFEQGFL WSFLGPVTFI ILCNAVIFVT TWKLTQKES EINPDMKKLK KARALITITAI AOLFLLGCTW VEGLFIFDDR SILVTVVFTI LNCLOGAFLY LHLCLLNKKV REEYRKWACL VAGGSKYSEF TSTTSGTGHN QTRALRASES GI	Homo sapiens
			ctaaagtttt ttctttgaa tgacagaact acagcataat gcgtggcttc aacctgctcc A tcttctgggg atgttgtgtt atgcacagct ggggaaggga cataagaccc acacggaaac caaacacaaa gggtaataac tgtagagaca gtaccttgtt ccagcttat gccacctgca ccaatacggg ggacagttac tattgcactt gcaaacaaag ctctctgtcc agcaatgggc aaaatcactt caaggatcca ggagtgcgat gaaaagatat tgatgaatgt tctcaaaagcc cccagccctg tgggtcctaac tcactctgca aaaactgtc agggagggtac aagtgcagct gttttagatgg ttctcttctt cccactggaa atgactgggt ccagggaaag ccgggcaatt tctctgttac tgatatcaat gagtgcctca ccagcagggt ctgccctgag cattctgact gtgtcaactc catgggaagc tacagttgca gctgtcaagt tggattcacc tctagaaact ccaactgtga agacgtgaat gaatgtgcag atccaagagc ttgccagag catgcaactt gtaataacac tgttggaac tactcttgtt tctgcaacc aggatttgaa tccagcagtg gccacttgag tggccagggt ctcaaaagcat cgtgtgaaga tattgatgaa tgcactgaaa tgtgtcccat caattcaaca tgcaccaaca ctctgggag ctacttttgc acctgccacc ctggcttgc accaagcagt ggacagttga atttcacaga ccaaggagtg gaatgtagag atattgatga gtgccgcaa gatccatcaa cctgtgtgtcc taattctatc tgcaccaatg ccctgggctc ctacagctgt ggtgtcattg taggctttca tcccaatcca gaaggctccc agaaagatgg caacttcagc tggccaaagg ttctcttcaa atgtaaggaa gatgtgatac ccgataataa gcagatccag caatgccaa gggtaaccgc agtgaacct gcatagtctt ccttttgtgc acaataaat aacatcttca gcgttctgga caaagtgtgt gaaaaataaa cgacgtagt ttctctgaag aatacaactg agagctttgt cctgtgtcctt aaacaaatat ccatgtggac taaattcacc aggaagaga cgtctctcct ggccacagtc ttctggaga tgttggaag catgacactg gcattctttt ggaacccctc agcaaatgtc actccggctg ttcggggcga atacttagac attagagaga aagtatcaa caaagaatgc agtgaagaga atgtgacgtt ggacttgga gccaaagggg ataagatgaa gacgggtgtg tccacaattg aggaatctga atccacagag accactgggt tggcttttgt ctcctttgtg ggcattggaat cgggttttaa tgagggcttc ttccaagacc accaggctcc cttgaccacc tctgagatca agctgaagat gaattctcga gtctgtggg gcataatgac tggagagaag aaagacgggt tctcagatcc aatcatctac actctggaga acgttcagcc aaagcagaag tttagagaggc ccatctgtgt ttcttgagc actgatgtga aggtggaag atgacatcc tttagctgtg tgatcctgga agcttctgag acataacca tctgcagctg taatcagatg gcaaatcttg ccgttatcat ggcgtctggg gagctcacga tggacttttc cttgtacatc attagccatg taggeattat catctccttg gtgtgctcgc tcttgccat cgcaccttt ctgctgtgtc gttccatccg aaatcaaac acctacctcc acctgacct ctggtgtgtg ctctcttgg cgaagactct ctctctgcc ggtatacaca agactgacaa caagacgggc tgcgccatca	

90	941	EMR1 Hormone NP_001965.1	MRGNLLLFW GCCVMHSWEG HIRPTRKPNP	KGNNCRDSTL CPAYATCTNT	VDSYYCTCKQ P	Homo sapiens
		Receptor	GFLSSNGQNH FKDPGVRCCKD IDECSQSPQ	CGPNSSCKNL SGRYKCSCLD	GFSSPTGNDW	
			VPGKPGNFSC TDINECLTSR VCPHSDCVN	SMGSYSCSQ VGFISRNSTC	EDVNECADPR	
			ACPEHATCNN TVGNYSFCFN PGFESSGHL	SCQGLKASCE DIDECTEMCP	INSTCTNTPG	
			SYFCTCHPGF APSSGQLNFT DQVECRDID	ECRQDPSTCG PMSICTNALG	SYSCGCIVGF	
			HPNPEGSKQD GNFSCQRLVF KCKEDVIPDN	KQIQCCQEGT AVKPAYVSFC	AQINNIFSVL	
			DKVCENKTTV VSLKNTESEF VPVLKQISMW	TKFTKEETSS LATVFLESVE	SMTLASFWKP	
			SANVTPAVRA EYLDIESKVI NKECSEENV	LDLVAKGDKM KIGCSTIEES	ESTETTGVAF	
			VSFVGMESVL NERFFQDHQA PLTSEIKLK	MNSRVVGGIM TGEKKDGFSD	PIIYTLENVQ	
			PKQKFERPIC VSMSTDVKGG RWTSGGCVL	EASETYTICS CNQMANLAVI	MASGELTMDF	
			SLYIISHVGI IISLVCLVLA IATFLLCRSI	RNHTYIHLH LCVCLLLAKT	LFLAGIHKTD	
			NKTGCALIIAG FLHYLFLACF FWMLEAVIL	FWMVRLKVV NYFSSRNIM	LHICAFGYGL	
			PMLVVVISAS VQPQGYGMHN RCWLNTETGF	WVSLGPNVCT VIVINSLLLT	WTWLIRQRL	
			SSVNAEVSTL KDRLLTFKA FAQLFILGCS	WVLGIFQIGP VAGVMAYLFT	IINSLQGAFI	
			FLIHCLLNGQ VREYKRWIT GKTRPSSQSQ	TSRILLSSMP SASKTG		
91	965	G Protein- Coupled Receptor GPR30	ggaacacgac acctagaagt aggagtgaga	tteqctgaag ,ttccctctg	aggaagaccc A	Homo sapiens
			accctccgc ctggagagcc ggggctggcg	gtgctgaggg accctctcg	cttgagacgc	
			ccacgggggc ttgggggggc tgcctctgcc	ctcatggggc ggcctcggt	tcccgaagcg	
			gcgagtgaat attcaaatgg ccagtagggg	gcgcactcg aagtggccgc	ccgcgatgag	
			gcagttcagc ggcctcgaga gtccggggag	ggaggtttat tctccgctg	cacgagactg	
			tgaatccgc aacctagagc aggagggcg	gcctcggtgg ccctccagc	acaaactct	
			ggacggcagg taccagaga gtgagcagct	ccacgcggga ctgtgcacg	tggccgacac	

ccgagggac gccgcgga cagacacg cagggccctc gctccacgg atgcaccatg
 ccggtgtgag gagcatctgt tcttccact ctctgcagt acaaaacca accaaacca
 ccacaggtgc tctcctggg gatttctctg tctgacaaat gccaggctca ctcaaggag
 aatcacgctt ctttctaaag atggattcac ctttaaac agagctctgg gaccccttgg
 gcaaatcttg aaagctgcac ggcgagaga catggatgtg acttccaaag cccggggcgt
 gggcctggag atgtaccag gcaccgca cctgcgcc ccaaacca cctccccga
 gctaacctg tcccaccgc tctgggac cgcctggc aatggagag gtgagctctc
 ggagaccag cagtacgtga tggcctgtt cctctctg cctacaca tcttctctt
 cccatcgcc ttgtggga acatcctgat cctggtgtg aacatcagct tccgcgaga
 gatgaccac cccgacctgt acttcatca cctggcgtg gcggacctca tctgggtggc
 cgaactccctc attgaggtgt tcaacctgca cagcggtac tagacatcg cgtcctctg
 cacttctatg tgcctcttc tgcaggtcaa catgtacag agcgtctct tctcacctg
 gatgagcttc gaccgtaca tgcctcggc caggccatg cgtgcagcc tgtccgcac
 caagcaccac gcccggtga gctgtggcct catctggatg gcacccgtg cagccacgt
 ggtgcccttc accgcgtgc acctgcaga caccgacgag gctgctctt gtttcgga
 tgtccgggag gtgcagtgcc tgcaggtcac gctgggtcagg gcgcaccgg accgtgggt
 cggcctgtgc tactccctca ttgtccgggt gctggtcagg gctgacggc cctggtggct
 ggggccccg cggcagaag cgtcccgcat gatccctcag gtggtgtggt tcttctgt
 ctgctggctg cggagaacg tcttcatcag cgtgcacctc tgcagcga cgcagcctg
 ggcgctccc tgcaagcagt ctttcgcga tgcacccc ctcacgggc acattgtcaa
 cctgcgcc tctccaaca gctgcctaaa cccctcctc tacagcttc tggggagac
 cttcagggac agctgaggg tgtacattga gcagaaaaa aatttgccg cctgaaccg
 cttctgtcac gctgccctga agccgtcat tccagacag accgagcagt cggatgtgag
 gttcagcagt gccgtgtaga cagccttggc cgcataggcc cagccagggt gtgactcggg
 agctgcacac acctgggtg acacaaggca cggccacgtc atgtctctaa actgcggtca
 gatgggctt ctggctctc gggccctgc gagggtcacg cttgctgtt caccctggg
 ctgcttaga aacctcacg ctggtcacct tgcactctc acacagaatt gctacaatcc
 caaagcgtc gccgcgag gtccaaagg cagcgtgtgac cagcctgtca cccagctct
 cccgccaa cctgctgcc cctgcacctg cctgcccgtg caggaaacat ttgacacgt
 cgaccaggaa agccacacg agagccact ggggtgaag cgcctcagtt acacaggaa
 cctaaagcaa atctgccac gtgggggaa tgcgctgga gatgcaaggt gctggtgggt
 ctgagctgga cgtgcggtg tgcctctgt gccacgggtc tgagctagct agcgacccg
 cgaagttaaag aggaagaag aaacatgctg cctggtgca cgcctgagc tctccatct
 tccaggtgg cagcaatgg cctgtcggc ctcaccagg ctcagaggag cagcagcgt
 cggccggag cagcagaag gccctctgt ggaagcccg cgtctgtc cggggtggtt
 cagtcactgc ttgttgacat caacatggca attgactca tgtggactgg gaccgtgca
 gctgccgtgt ggttagtcg ggtgccagga caatgaaata ctcacagcag tgtggtgac
 gaatttgtt ctacagaaat aacagctgg gacaactgg gtgatgatgt aaaaacctc
 ccataaaatg taagaaagc tgatgaggt ggtgacgtt agccttctc aataaacctg
 tcagtgcgg atcctt

NP_001496.1 MDVTSQARGV GLEMPGTAQ PAAPNTTSPE LNLSPHLLGT ALANGTGELS EHQQYVIGLF P Homo

Homo

P

ALANGTGELS

EHQQYVIGLF

P

Homo

P

P

P

P

P

93	978	Cholecystokini nin A Receptor	Coupled Receptor GPR30	LSCLYTIFFL PIGFVGNILI LVVNISFREK MTIPDLYFIN LAVADLILVA DSLIEVFNLIH sapiens
				ERYDYIAVIC TMSLFLQVN MYSSVFFLTW MSFDRIYALA RAMRCSLFRT KHHARLSCGL IWMASVSATL VFPTAVHLQH TDEACFCFAD VREVQWLEVT LGFIVPFAII GLCYSILIVRV LVRAHRHRLG RPRRQKALRM ILAWLVVFFV CWLPENVFIS VHLLQRTQPG AAPCKQSFRRH AHLPTGHIIV LAAFSNSCLN PLIYSFLGET FRDKRLRYIE QKTNLPAINR FCHAALKAVI PDSTEQSDVR FSSAV
94	978	Cholecystokini nin A Receptor	Coupled Receptor GPR30	ggaatggctg aaaaagccca cacttggaac tcactccctc cctgctcctc caccgcaggt A Homo sapiens
				tgcattctcg agacgcttcg gtcattagag gaatgagccg ggagtgaagca attcaccagc tctccagcac ttggttggaac gcagcaggca aggatggatg tggttgacag ccttcttctg aatggaagca acatcactcc tccctgtgaa ctccggctcg aaaaatgagac gcttttctgc ttggatcagc ccggtccttc caaagagtgg cagccagcgg tgcagattct cttgtactcc ttgatatcc tgcacagcgt gctgggaac acgctgtgca tcccgctgct gattcgggaac aagcggatgc ggacgggtcac caacatcttc ctccctcctc tggctgtcag cgacctcatg ctctgtctct tctgcatgcc gtccaacctc atccccaatc tgctcaagga ttcatctctc ggagcgccg ttgcaagac caccacctac ttcattggga cctctgtgag tgtatctacc tttaattctgg tagccatata tctagagaga tatggtgcga ttgcaaac cttacagctc cgggtctggc agacaaaatc ccatgctttg aaggtgattg ctgctacctg gtgctcttcc tttaccatca tgactccgta cccattttat agaacttgg tgctttttac caaaaataac aacagaccg cgaatatgtg ccgctttcta ctgccaaatg atgttatgca gcagtcctcg cacacattcc tgttactcat cctcttctt attctggaa tttgtatgat ggtggcatat ggattaatct ctttggaaat ctaccaggga ataaaattg aggtagacca gaagaagtct gctaaagaaa ggaacactag caccaccagc agcggcaaat atgaggacag cgaagggtgt tacctgcaaa agaccaggcc ccgaggaaag ctggagctcc ggcagctgtc caccggcagc agcagcaggg ccaaccgcat ccgagtaac agctccgag ccaacctgat ggccaagaaa aggtgatcc gcatgctcat cgtcatcgtg gctctcttct tctgtgtctg gatgccatc ttcagcgcca acgctggcg ggctacgac accgctcccg cagagcgccg cctctcagga accccatctt ccttcatcct cctcctgtcc tacacctcct cctgcgtcaa ccccatcctc tactgcttca tgaacaaaacg ctccgcctc ggcttcatgg ccaccttccc ctgctgcccc aatcctgtgc cccaggggc gagggagag gtggggaggg aggaggaagg cgggaccaca ggagcctctc tgtccaggtt ctctacagc catatgagt cctcgggtgc acccagtgga gatgtccctt gacctccac cgcagaagga aggcaggag gaggcagaga agaaagaacg gaagaagaga tcagggaagag aagagcaga gcagagctga tggagaagga aggtccatc tccagtggga actctcaag gtctcttttc atcctcatc tgatccaga gaactgctcc agtggggcca tgattggttt ctaggcagtt caaagcagga tatgttaagt aacactcaac catcag
94	978	Cholecystokini nin A Receptor	Coupled Receptor GPR30	MDVVDLSLVN GSNITPPCEL GLENETFLCL DQPRSKWQ PAVQILLYSL IFLLSVLGNTP P Homo sapiens
				LVITVLIRNK RMRTVNIFL LSLAVSDML CLFCMPFNL PNLKDFIFG SAVCKTITYF MGTSVSVSTF NLVAISLERY GAICKPLQSR VMQTKSHALK VIAATWCLSF TIMTPYPIYS NLVPFTKNNN QTANMCRFL PNDVMQOSWH TFLLLIFLI PGIVMMVAYG LISLELYQGI KFEASQKKA KERKPTTSS GKVEDSDGCV LQKTRPRKL ELRLSTGSS SRANRIRNS SAANLMAKR VIRMLIVIV LFFLCWMPIF SANAWRAYDT ASERRLSGT PISFILLISY

95	1103	Corticotropin releasing factor Receptor 2	NP_001883	MSASVPPQ	<p> TSSCVNPIIY CFMKNRFRLG FMATFPCCPN PGPPGARGEV GEEEGGTTG ASLSRFSYSH atggacgcgg cactgctcca cagcctgctg gaggccaact gcagcctggc gctggctgaa A gagctgctct tggacggctg ggggccacc ctggaccceg agggctcccta ctctactgac aacacgacct tggaccagat cggaacgtgc tggcccccga gcgtgcccgg agccctcgtg gagaggccct gcccagatga cttaaacggc gtcaagatga acacgaccgg gaatgcctat cgagaatgct tggagaatgg gacgtggggc tcaaatgata actactaca gtgtgagccc attttggatg acaagcagag gaagtatgac ctgcactacc gcacgcccct tgcgtcaaac tacctgggccc actgcgtatc tgtggcagcc ctgggtggccc ccttccctgct ttctctggcc ctgcggagca ttgcgtgtct gcggaatgtg attcaactgga acctcatcac cactttatc ctgcgaaatg tcatgtgtt cctgctgcag ctgcctgacc atgaagtga cgagagcaat gaggtctggt gccactgcat caccaccatc ttcaactact tcgtggtgac caacttcttc tggatgtttg tggaaaggctg ctacctgcac acggccattg tcatgacct ctccactgag cgctgcgca agtgccctct cctcttcac ggatggtgca tccccttccc catcatcgtc gctggggcca tgggcaagct ctactatgag aatgaacagt gctgggtttgg caaggagcct ggcgacctgg tggactacat ctaccaaggc cccatcatc tcgtgctcct gatcaatttc gtatttctgt tcaacatcgt caggatccta atgacaaagt tacgcgcgtc caccacatcc gagacaatcc agtacaggaa ggcagtgaag gccaccctgg tgcctcctgc cctcctgggc atcacctaca tgcctctctt cgtcaatccc ggggaggagc acctgtcaca gatcatgttc atcatattca actccttctc geagtcgttc cagggtttct tcgtgtcgtg ctctactgac ttcttcaatg gagaggtgag ctacagcgtg aggaagaggt ggcaccgctg gcaggacct cactcccttc gactcccat ggcgcgggccc atgtccatcc ctacatcacc cacacggatc agcttccaca gcatacaagca gacggccgct gtgtgacccc tcgtgcgccc acctgcacag ctccctctgc ctctccacc ttcttctct tgcgttctctg tgcgtggcag gctctcgtgg ggcaggagat gggaggggag agaccagctc tcacgcctgg caggaaaagag ggggtgcggc agccaagggg gactgcaagg gacagggatg agtgggggccc accaggctca gcgcaagagg aagcagaggg aattcacagg acccctgag aagagccagt cagatgtctg caggcatattg cccatccag cctctctg caggcccta ctgggcccag agcagagaaag gacctgtcca acacacacag ctatttatag tagcagacac agggctcccc tgcctactc atggagcccag cagccaggca atgtgtggc cctgcactgg ccttggaact ccacactcag tggcgccctg cagttgggtg ggttaacgcc aagcaaaagg tcagtttggc tgcctatcc cagggtgtgc acctagagag gctcaattgt acccaacct gtctctgtg cccctcccc gccatcctcc ccgctttggg ggtcccatga aggatgcagg ctccaggcc tggcttcttc tcttgggaga ccccctctc gcttagtcca cagattagc aatacaaggaa gacgccatca ggaagaccac atccttagtc aaccagttgc atcgtgcgg gcaaatgag gacagagggc atggagaggg gagggctggg atgggaatag cagaaccacc atgtcttcag tgattgaaac tcatacccca ttgcctttg cccctccagtc tcccttcag aaacatctct gctctctgtg aaataaacca tgcctcttgg </p>	Homo sapiens
96	1103	Corticotropin releasing factor	NP_001874.1	MDAALLHSL	<p> ERPCEYFNG VKYNTNAY RECLNGTWA SKINYSQCEP ILDDKQRYD LHYRIALVN YLGHCVSVA LVAELLFLA LRSIRCLRN IHNLTTFI LRNVMMFLQ LVDHEVHESN </p>	Homo sapiens

Homo sapiens

100	1241	Dopamine Receptor D5	NP_000789.1	MLPPGNSGTA YPGQFALYQQ LAQGNVAVGGS AGAPPLGPSQ VVTACLTLIL IIMTLGNVL P VCAALVRSRH LRANMTNVFI VSLAVSDLFV ALLVMPWKAV AEVAGYWPFG AFCDVWVAFD IMCSTASILN LCVISVDRYW AISRPFRYKR KMTQRMALVM VGLAWTILSIL ISFIPVQLNW HRDQAASWGG LDLPNNLANW TPWEEDFWEF DVNAENCDS LNRTYAISS LISFYIPVAI MIVTYTRIYR IAQVQIRRI SLERAAEHAQ SCRSSAACAP DTSLRASIKK ETKVLKTLVS INGVFVCCWL PFFILNCMPV FCSGHPGPP AGFPCVSEIT FDFVFWFGWA NSSLNPVIYA FNADFQKVEA QLIGCSHFCS RTPVETVNIS NELISYNQDI VFHKEIAAAY IHMPNNAVTP GNREVDNDEE EGPFRDMFOI YQTSPPGDVP AESVWELDCE GEISLDKITP FTPNGFH	Homo sapiens
101	1242	Dopamine Receptor D2	NM_000795	tatcagacgt cccagatggt tgaccctgtt gctgagtctg tctgggagct ggactgcgag ggggagattt ctttagacaa aataaacctt ttcaccccca atggattcca ttaaaactgca ttaagaaacc ccctcatgga tctgcataac cgcacagaca ctgacaagca cgcacacaca cgcaaataca tgcctttcca gtgctgtcc ctttatcttg tgtttctctg tagtagctcg tgtgcttaga aacctcacc cattgattgg tagttcgaag aattggcaga atcagttgca ataaactcag tcaaatgtac ccagcctacc agagatggag caacgatcct atgagagag agagtatggt gctgggtcct taaaaaaa aatgatactt ggtccttaaa aaatatgctc tcccctcct ttttaacaa atggcttgtt cagtcacttg tttgtgtttg aattgatttt taaacagcag gttgtgtgtg tgtgcagtga tgtggtggga gcacagcttt cctgggtctg gattccctg gctttgtgct tatgtcattt cttctctctg tgctggtggg ggcctcttta ccatagctta agaagtatcc ctgatttatt ctggtgtrcta ataaacacag attatttcta aaaaaaaaa aaaaaaaaaa aa	Homo sapiens
101	1242	Dopamine Receptor D2	NM_000795	agagcctggc caccagtgg ctccaccgcc ctgatggatc cactgaatct gtcttggtat A gatgatgatc tggagaggca gaactggagc cggcccttca acgggtcaga cgggaaggcg gacagacccc actacaacta ctatgccaca ctgctcacc ctgctatcgc tgtcatcgtc ttcggcaacg tctgtgtgtg catggctgtg tcccgcgaga aggcgctgca gaccaccacc aactacctga tctgcagcct cgcagtggcc gacctctctg tcgccacct ggtcatgccc tgggttgctt acctggaggt ggtaggtgag tggaaattca gcaggattca ctgtgacatc ttcgtcactc tggacgtcat gatgtgcacg gcgagcatcc tgaacttgtg tgccatcagc atcgacaggt acacagctgt ggccatgcc atgctgtaca atacgcgta cagctccaa cgccgggtca cgtcatgat ctccatcgtc tgggtcctgt ccttcacct ctctgccc ctctcttctg gactcaataa cgcagaccag aacgagtga tcatigccaa ccggccttc gtggtctact cctccatcgt ctcttctac gtgcccttca ttgtacct gctggtctac atcaagatct acattgtcct cgcagacgc cgaagcga tcaaaccaa acgcagcagc cgagctttca gggccacct gagggctcca ctaaaggga actgtactca cccgaggagc atgaaactct gcacgttat catgaagtct aatggaggt tccagtgaa caggcgga gtgagggtct cccggcgagc ccagagctg gagatggaga tgcctctccag caccagccca ccgagagaga cccggtacag cccatccca ccagccacc accagctgac tctccccgac ccgtcccacc atggtctcca cagcaactcc cagagcccc gcaaaccaa gaagaatggg catgcccagg accaccccaa gatggccaag atctttgaga tccagacct gccaatggc aaaacccgga cctccctcaa gaccatgagc cgtaggagca tctccagca gaaggagaa aaagccactc agatgctgc tattgttctc ggcgtgttca tcatctgctg gctgcccttc ttcatcacac acatcctgaa catacactgt gactgcaaca tccgcctgt cctgtacagc	Homo sapiens

102	1242	Dopamine Receptor D2	NP_000786.1	<p>gacctcacgt ggctgggcta tgtcaacagc gccgtgaacc ccatcatcta caccacctc aaccatgagt tccgcaaggc cttctgaag atctccact gctgactctg ctgacctgcc gcacagcagc ctgcttccca cctccctgcc caggccggcc agcctcacc ttgcgaaccg tgagcaggaa ggctgggtg gatggcctc ctctcttag ccccgccagg cctgacgtg ttcgtctggc tccatgctc tcaactgcc gacacctca ctctgccag gcagtgtctg tgagctggc atggtaccag cctggggct ggccccctc caggggcagc tcatagatgc ccccctcca cctccagtcc cctatcctt ggaccaaag atgcagccgc cttccttgac cttctctgg ggctctagg ttgctggagc ctgagtcagg gccagaggc tgaatttct ctttgtggg cttggcgtgg agcaggcgtt ggggagagat ggacagttca caccctgcaa ggccacacag aggcaagcaa gctctctgc cgaggagcca ggcaacttca gtccctggag accatgtaa ataccagact gcaggttga cccgagagat tcccaagcca aaaccttag ctccctccg caccctgat tggacctta cttccagc tagtccggc ccacctcacc cogttacagc tcccaagtg gttccacat gctctgagaa gagagacct catcttgaag ggccagag ggctctagg gagagaaact ccttgcccta gccacctg ctgccttctg acggccctgc aatgtatccc ttctcacagc acatgctgc cagcctggg cctggcaggg aggtcaggcc ctggaactct atctgggctt gggctaggga catcagaggt tctttgagg actgctctg ccacactctg acgcaaaacc acttctctt tetattctt ctggccttc ctctctctg ttctccctcc cttccactgc ctctgccta gaggagcca cggctaagag gtgctgaaa accatctggc ctggccttgc cctgacctga ggaaggagg gaagctgcag cttgggagag cccctgggc ctgactctg taacatcact atccgatgca ccaactaat aaaacttga cgagtcacct tc</p>	Homo sapiens
103	1243	Dopamine Receptor D3	NM_000796	<p>MDPILNSWYD DDLERQNSR PFNGSGKAD RPHNYATL LTLIAVIF GNVIVCMAS P REKALQTTN YLIVSLAVD LLVATLMPW VYLEVVGW KFSRIHCDIF VTLDVMCTA SILNLCAISI DRYTAVAMP LYNTRYSSK RVTMISIV VLSFTISCPL LFGLNNADQN ECIANPAFV VYSSIVFY PFIVTLVYI KTYIVLRRR KRVNKRSSR AFRAHLRAPL KGNCTHPEDM KLCIVIMKSN GSFPVNRVV EAARRAOELE MEMLSSTSP ERTRYSPIPP SHHQLTLPD SHHGLHSTPD SPAKPEKNH AKDHPKIAKI FEIQTMPNGK TRTSLKTMRS RKLSQKQKK ATQMLAIVLG VFICWLPFF ITHILNIHCD CNIPPVLYSA FTWLGYNVNSA VNPIIYTFN IEFKAFLEKI LHC</p>	Homo sapiens

104	1243	Dopamine Receptor D3	NP_000787.1	<p>gctcctgtcg gcgcgtggcc ctcatgatca cggccgtctg ggtactggcc ttgtctgtgt</p> <p>cctgcccctct tctgttttggc tttaataacca caggggaccc cactgtctgc tccatctcca</p> <p>acctgattt tgtcatctac tcttcagtgg tgtccttcta cctgcccctt ggagtgactg</p> <p>tccttgctta tgccagaatc tatgtgtgtc tgaacaaaag gagacggaaa aggatcctca</p> <p>ctcgacagaa cagtcatgac aacagtgtca ggcctgacct ccccaacaa accctctctc</p> <p>ctgacccggc acatctggag ctgaagcgtt actacagctt ctgccaggac actgcccctg</p> <p>gtggaccagg ctccaagaa agaggaggag agtgaagaag agaggagaag actcgggaatt</p> <p>ccctgagtc caccatagcg cccaagctca gcttagaagt tcgaaaactc agcaatggca</p> <p>gattatcgac atctttgaag ctggggcccc tgcaacctcg gggagtggca cttcggggaga</p> <p>agaaggcaac ccaaatggtg gccattgtgc ttggggccct cattgtctgc tggctgcccct</p> <p>tcctcttgac ccatgttctc aatacccaat gccagacatg ccacgtgtcc ccagagcttt</p> <p>acagtggcac gacatggctg ggctacgtga atagcgcctt caaccctgtg atctatacca</p> <p>ccctcaatat cgagttcccg aaagccttcc tcaagatcct gctctgtga gggagc</p> <p>ccctcaatat cgagttcccg aaagccttcc tcaagatcct gctctgtga gggagc</p>	Homo sapiens
105	1244	Dopamine Receptor D4	NM_000797	<p>atggggaaac gagcacccg gcagctggac gggctgctgg cctggcgcgg gccggcgcgg</p> <p>gagcctctcg cctctctggt gctgcgctc ttcgtctact ccgaggtcca ggggtggcgg</p> <p>tggtgtctga gccccgcct ttgcgacgcc ctcattggcca tggacgtcat gctgtgcacc</p> <p>gcctccatct tcaacctgtg cggcatcagc gtggacaggt tctgtggccgt gcccgtgccg</p> <p>ctgcgctaca accggcaggg tgggagccgc cggcagctgc tgcctcatcg cggcacgtgg</p> <p>ctgtgttccg cggcgtgtgc ggcgcccgtg ctgtgcggcc tcaacgacgt gcgcgccgcg</p> <p>gaccccgccg tgtgcgcct ggaggaccgc gactacgtgg tctactctc cgtgtgtctcc</p> <p>ttcttcttac cctgcccgt catgtgtctg cctactggg ccacgttccg cggcctgcag</p> <p>cgtgtggagg tggcacgtcg cccaagctg cagggcgcgg cggcccgcgg acccagcggc</p> <p>cactggccgc cttccccac gccaccccg cccgcctcc cccaggacc cgtgggcccc</p> <p>gactgtgcgc ccccgccgc cggcctccc ggacccctgc gggggtccct cgtgtgcgcc</p> <p>gcccggcccg acccctgcgg cccgactgt ggcggcccg ggcggcccg cgtgtgcgcc</p> <p>ctccccagg cccctgtgc cccgactgt ggcggcccg ggcggcccg cgtgtgcgcc</p> <p>ccctggggcc cccgactgtg gcccccgcg cccggcctcc cccaggacc cgtgtgcgcc</p> <p>gactgtgcgc ccccgccgc cggcctccc cgggacccct cgggctccaa cgtgtgtccc</p> <p>cccagcgcgc tcagagccgc cgcgtccca cccgcagac cccgcagag cgtgtgtccc</p> <p>cggcgtgcca agatcaccgg ccgggagcgc aagggcctga gggctctgccc ggtgtgtggt</p> <p>ggggccttcc tgcgtgtgctg gacgccttc ttcgtgtgtgc acatcacgca ggcgtgtgtg</p>	Homo sapiens

106	1244	Dopamine Receptor D4	NP_000788.1	<p>cctgctctgt cctgtccccc ggggtggtc agcgccgtca cctggctggg ctacgtcaac agcgccctca acccgtcat ctacactgtc ttcaacgccg agttccgcaa cgtcttcgcg aaggccctgc gtgctctgtg ctgagccggg caccgccggg cgcccccg cctgatggcc aggcctcagg gaccaaggag atggggaggg cgcttttcta cgttaattaa acaattcct tccc</p> <p>MGNRSTADAD GLIAGRGPA GASAGASAGL AQGAAALVG GVLLIGAVLA GNSLVCVSA P TERALQPTTN SFIVSLAAD LLALLVLPL FVYSEVQGA WLLSPRLCDA LMAMDVMLCT ASIFNLCAIS VDRFVAVP LRYNRQGSR RQLLIGATW LLSAAVAAPV LCGLNDVRGR DPAVCRLEDR DYVYSSVCS FELPCPLMLL LYWATERGLQ RWEVARRAKL HGRAPRRPSG PGPSPPTPA PRLPQDPCGP DCAPPAPGLP RGPCGPDCAF AAPGLPPDPC GPDCAFPAPG LPQDPCGPDG APPAPGLPRG PCGPDCAPPA PGLPQDPCGP DCAPPAPGLP PDPGGSNCAP PDAVRAAALP PQTPPQTRR RRAKITGRER KAMRVLVVV GAFLLCWTFF FVHITQALC PACSVPPRLV SAVTWLGYVN SALNPVIYTV FNAEFNRVFR KALRACC</p>	Homo sapiens
107	1267	Opioid Receptor, delta 1 (OPRD1)	NM_000911	<p>ccgaggagcc tggctgtctc ctggctcaca gcgctccggg cgaggagagc gggcgagccg A gggggctggg ccggtgcggg cggcgaggca ggcggacgag ggcgagagac agcgggggcg ccggggcgcg gcacggcgcg ggtcggggcc ggcctctgcc ttgccgtccc cctcgcgtcg gatcccccg ccaggcgag cgtgggagag ggcggcgcg gacgcccga gccatggaa cgccccctc cgcggcgcc gagctgcagc cccgctctt gcccaacgcc tcggacgctt acctagcgc ctccccagc gctggcgcca atggctcggg gccgccagga ccggggagcg cctcgctcct cgccctggca atgccatca cggcgctcta ctggccgtg tgccgctgg ggctgctgg caactgtctt gtcattgtcg gcatcgctcg gtacactaag atgaagacgg ccaccaacat ctacattctc aacctggcct tagcggatgc gctggccacc agcacgctgc ctttccagag tgccaagtac ctgatggaga cgtggccctt cggcgagctg ctctgcaagg ctgtgctctc catcgactac tacaatatgt tcaccagcat ctacacgctc accatgatga gtgtgaccg ctacatcgct gctggccacc cgttcaaggc cctggacttc cgcacgctg ccaaggccaa gctgatcaac atctgtatct ggttcctggc ctacaggctt ggcgtgccc tcattggtcat ggtgtgacc cgtccccggg acggtgcagt ggtgtgcagt ctccagttcc ccagcccccag ctggtactgg gacacggtga ccaagatctg cgtgttcttc ttgccttcg tggtgccccat cctcatcacc accgtgtgct atggcctcat gctgtgcgc ctgcgagatg tgcgctgct gtcgggctcc aaggagaagg accgcagcct gcggcgcatc accgcgatgg tgctggtggt tggggcgccc ttctgtggtg ttggggcgcc catcacatc ttgctcatcg tctggacgct ggtggacatc gaccggcgcg acccgctggg gttggctlgcg ctgacactgt gcatacgctt gggctacgccc aatagcagcc tcaacccccg gctctacgct tctctcgacg agaaactcaa gctgtgcttc cgcagctct cgcgcaagcc ctggggccgc ceagacccca gcagcttcag ccggcccccg gaagccacgg ccgcgagcgt tgtcacccgc tgcaccccg ccgatggtcc cggcggtggc cgtgcgcct gaccaggcca tccggcccc agacgcccc ccctagtgt acccgaggc cacatgagtc ccagtgggag gcggagagcca tgaatgtggag tggggccagt agataggtcg gagggtttg ggaccgctag atggggcctc tgttcggag acgggacccg gccgctagat gggcatgggg tgggctctg tttggggcg aggcagagga cagatcaatg gcgcagtgc tctggtctgg gtgccccct ccacggctct aggtggggcg ggaagccag tgactccagg agaggagcgg gacctgtggc tctacaactg agtccctaaa</p>	Homo sapiens

108	1267	Opioid Receptor, delta 1 (OPRD1)	NP_000902.1	MEPAPSAGAE LQPPLFANAS DAYPSAFPSA GANASGPPGP GSASSLALAI AITALYSAVC P AVGLLGNVLV MFGIVRYTRM KTATNIYIFN LALADALAFR TPAKAKLINI CIWVLASGVG CKAVLSIDYY NMFTSIFTLT MMSVDRIYAV CHPVKALINL VCYGLMLRL VPIMMAVTR PRDGAIVCML QPSPSWYWD TVTKICVFLF AFWPILIT VCYGLMLRL RSVRLLSGSK EKDRSLRRIT RMVLVAVGAF VVCWAPIHIF VIVWTLVDID RRDPLVVAAL HLCIALGYAN SSLNPVLYAF LDENFKRCER QLCKKPCGRP DPSSFSPRE ATARERTAC TPSDGPGGGR AA	Homo sapiens
109	1424	Duffy Antigen	NM_002036	gggcctgaac caaacgggtgc catggggaac tgtctgcaca ggtgagat ggggccaggc A cccagagtc cttatcccta tgcccctcat ttcccctgct gttgcccc cagctcttat atctcttct tttctctctc atcttttctc ccttcccgtc ttttctctt tcttcaaag tcttttctc tctctcttc ctatgtagc cttctagtc cctctgtgt ccttccctt gcctttgagt cagttccatc ctggtctctt ggtgccttc cttctgacct tgcactgtc ctccagccc agtgcctctg gcttcccag gactgttct gctccggtc ttcaggctc ctgctttgtc cttttccact gtccgacct catctgacct ctgcagagac cttgttctc caccgacct tctctctgt cctcccctc cactgccc tcaattccca ggagactct ccggtgtaac tctgatggc tctctgggt atgtctcca ggcgagctc tcccctcaa ctgagaaactc agtcagctg gacttcgaag atgtatgaa ttcttctcat ggtgtgaatg attcttccc agatggagac tatgatgcca acctggaag agctgcccc tgccactct gtaacctgtc ggatgactct gactgacct tcttctacct caccagtgc ctgggtatcc tagctagcag cactgtctc tcatgcttt tcaagacct cttccgctg cagctctgcc ctggctggcc tgtcctggca cagctggctg tgggcagtc cctcttcagc attgtggtc cgtcttggc cccagggcta ggtagcactc gtagctctgc cctgtgtagc ctggctact gtgtctgta tggctcagcc ttgcccag cttgtctgt aggtgacct gctccctgg gccacagact ggtgcaggc caggtcccag cctcacct ggggtcact gtgggaattt ggggagtggc tgcctactg acactgctg tcaacctggc cagtgtgtc tctggtggac tctgcacct gatatacagc acgagctga agcttttga ggcacacac actgtagcct gtctgacct cttgtcttg ttgcatggg gttgttttg agcaaagggt ctgaagaagg cattgggtat ggggccaggc cctggatga atactctgt ggcctggtt atttctggt ggcctcatgg ggtggttcta gactggatt tctggtgag gtcacagctg ttgtgtgt caacatgtct ggcacagcag gctctggacc tctgctgaa cctggcagaa gctctggcaa tttgcactg tgtggctacg cctgtctcc tgcctatt tgcaccacag gccaccgca ccctctgccc cctctgccc cctcctgccc gatggtctc tcatctggac accttggaa gcaaatccta gttctcttc cactgtcaa cctgaattaa agtctacat gcttctgtg DSALPFFILT SVLGILASST VLFMLFRPLF RWQLCPGWV LAQLAVGSAL FSIWVPLAP P GLGSTRSSAL CSLGVCWYGF SAFAQALLIG CHASIGHRLG AGQVPLTLG LTVGIWVAA LLTLPVTLAS GASGGLCTLI YSTELKALQA THTVACLAIF VLPLGLFGA KGLKALGMG PGPWNILWA WFIFWPHGV VLGLDFIVRS KLLLSCTCIA QQALDILLNL AEALAILHCV ATPLLLALFC HQATRIILPS LPLPEGWSSH LDTLGSKS	Homo sapiens
110	1424	Duffy Antigen	NP_002027.1	MASSGVQLQA ELSSTENSS QLDFEDVWNS SYGVNDSFPD GDYDANLEAA APCHSCNLLD P cctctctgccc cctctgccc cctctgccc gatggtctc tcatctggac accttggaa gcaaatccta gttctcttc cactgtcaa cctgaattaa agtctacat gcttctgtg DSALPFFILT SVLGILASST VLFMLFRPLF RWQLCPGWV LAQLAVGSAL FSIWVPLAP P GLGSTRSSAL CSLGVCWYGF SAFAQALLIG CHASIGHRLG AGQVPLTLG LTVGIWVAA LLTLPVTLAS GASGGLCTLI YSTELKALQA THTVACLAIF VLPLGLFGA KGLKALGMG PGPWNILWA WFIFWPHGV VLGLDFIVRS KLLLSCTCIA QQALDILLNL AEALAILHCV ATPLLLALFC HQATRIILPS LPLPEGWSSH LDTLGSKS	Homo sapiens

111	1451	EBV-Induced Gene 2	NM_004951	ggaattccct gatatacacc tggaccacca ccaatggata tacaatggc aaacaatttt A actccgccct ctgcaactcc tcagggaat gactgtgacc totatgcaca tcacagcacg gccaggatag taatgcctct gcattacagc ctgctcttca tcattgggct cgtgggaac ttactagcct tggctgctcat tgttcaaac aggaacacac tcaactctac caccctctat tcaacaaatt tgggtatttc tgatatactt ttaccacctt ttgcctac acgaatagcc tactatgcaa tgggctttga ctggagaatc ggagatgccc tgtgtaggat aactgcgcta gtgttttaca tcaacacata tgcagggtgtg aactttatga cctgcctgag tattgaccgc ttcattgctg tgggtcaccc tctacgctac aacaagataa aaaggattga acatgcaaaa ggcgtgtgca tatttgtctg gattctagta ttgtctcaga cactccact cctcatcaac cctatgtcaa agcaggaggg tgaaggatt acatgcatgg agtatccaaa ctttgaagaa actaaatctc ttccctggat tctgctggg gcattgttca taggatatgt acttccactt ataatcattc tcatctgcta ttctcagatc tgcgtgcaac tcttcagaac tgcacacaa aaccactca ctgagaaatc tgggttaaac aaaaaggctc tcaacacaaat tattcttatt attgttgtgt ttgttctctg ttccacacct taccatgttg caattattca acatattgat aagaagcttc gtttctctaa ttctctggaa tgtagccaaa gacattcggt ccagatttct ctgcacttta cagtatgcct gatgaacttc aattgctgca tggacccttt tatctacttc tttgcattga aagggtataa gagaaagggt atgaggatgc tgaacggca agtcagtga tcgatttcta gtgctgtgaa gtcagccct gaagaaat cagtgaaat gacagaaacg cagatgatga tacattccaa gtcttcaaat ggaagtgaa atggattgta ttttggtta tagtgacgta aactgtatga caaactttgc aggaacttcc ttataaagca aaataattgt tcagcttcca attagtattc tttatattt ctttcatgtg gcaatttccc atctccaaact cggaaagtaag cccaagagaa caacataaag caaacacaaat aaagcacaat aaaaatgcaa ataaatattt tcaatttttat ttgtaaacga atacaccaa aggaggcgct cttataaact cccaatgtaa aaagtgttgt ttaataaaa aatttaatta ttatttcttg ccaacaaatg gctagaaggg actgaataga ttatatattg ccagatgtta atactgtaac atacttttta aataacatat ttcttaaatc caaatttctc tcaatgttag atttaattcc ctcaataaca ccaatgtttt gtttgtttc gtctgggtc ataaaacttt gtaaggaac tcttttgaa taaagagcag gatgctgc	Homo sapiens
112	1451	EBV-Induced Gene 2	NP_004942.1	MDIQANNFT PPSATPQND CDLYAHSTA RIVMPLHYSL VFILGLVGNL LALVIVQNR P KKINSTIYS TNLVTSILF TTALPTRIAY YANGFDWRIG DALCRITALV FYINTYAGVN FMTCLSIDRF IAVVHPLRYN KIKRIEHAKG VCIFFWILVF AQTIPLLINP MSKQEAERIT CMEYPNFEET KSLPWILLGA CFIGYVLPLI IILICYSQIC CKLFRTAKQN PLTEKSGVNN KALNTIILII VVFLCFTPY HVAILQHMIK KLRFSNFLEC SQHSFQISL HFTVCLMNFN CCMDPFIYFF ACKGYKRKVM RMLKRQVSVS ISSAVKSAPE ENSREMTETQ MHIHSKSSNG K	Homo sapiens
113	1486	Endothelin B Receptor	NM_000115	gagacattcc gbtgggggac tctggccagc ccagagcaacg tggatcctga gagcactccc A aggtaggcat ttgccccggt gggagcctt gccagagcag tgtgtggcag gccccgtgg aggatcaaca cagtggtcta acactggga ggaactggtta ctggagtctt ggacatctga aacttggctc tgaactgctg cagcggccac cggagcctt tggagcagg tagcagctag cagccgctc caagtctgtg cggagcgcc ctggttcgcg tggttcttgc ctgaggcctg tcgcgcatct ggggagagga gagaggcttc ccgctcgaca gggccactcc gcttttgcaa	Homo sapiens

accgcagaga taatgacgcc acccactaag acctatggc ccaagggttc caagccagct
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ataattacga tggactacaa aggaagtat ctgcgaatc gctgtctca tccgttcag
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agctttctgt tggattgga ctatatggt atcaacatgg ctacactgaa ttcctgcatt
aaccaattg ctctgtatt ggtgagcaa agatccttaa actgcttaa gtcagtctta
tgctgtggt gccagtcatt tgaagaaaaa cagtccctgg aggaaaagca gtcgtgctta
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taaaagcttat tactaatatt tgtattattt ttgtaaatag ccaatagaaa agtttgctg

114	1486	Endothelin B NP_000106.1 Receptor	<p> acatggtgct tttcttcat cttagagcaa aactgctttt tgagaccgta agaaccctct agctttgtgc gttctgcct aatttttata tcttctaagc aaagtgcctt aggatagctt gggatgagat gtgtgtgaaa gtatgtacaa gagaaaacgg aagagagagg aaatgagggtg ggggttgagg aaacccatgg ggacagattc ccattcttag cctaacgttc gtcattgcct cgtcacatca atgcaaaagg tcttgatttt gttocagcaa aacacagtcg aatgttctca ggtgacttt cgaaataaat tgggccaag agctttaaa cggctttaa atatgcccc atttttactt tgttttctt ttaataggct ggccacatg ttggaataa gctagtaag ttgttttctg tcaatattga atgtgatgg acagtaaac aaacccaac aatgtggcca gaaagaaaga gcaataataa ttaattcaca caccatagg attctattta taaatcacc acaaacctgt tctttaattt catcccaatc acttttccag aggcctgta tcatagaagt cattttagac tctcaattt aaattaattt tgaatcacta atattttcac agtttattaa tataattaat tctatttaa attttagatt atttttata coattgtactg aatttttaca tcttgatacc ctttcttctt ccatgtcagt atcatgttct ctaattatct tgccaaattt tgaactaca cacaaaaagc atacttgcatt tattataat aaaattgcat tcagtggctt ttcaaaaaa atgtttgatt caaaacttta acatactgat aagtaagaaa caattataat tctttacat actcaaaacc aagatagaaa aggtgctat cgttcaactt caaaacatgt ttcctagat taaggacttt aatatagcaa cagacaaaat tattgttaac atggatgta cagctcaaaa gattataaa agattttaac cttatttctc cttattatc cactgcta gttgatgtat gttcaaacac ctttagtat. tbatagctta catatggcca aggaaataca gtttatagca aaacatgggt atgtgttagc taactttata aagtgtaata atacaatgt aaaaaattat atatctgga ggaatttttg gtgctctaaa gtgctatag ttaactgattt tttattatgt aagcaaaacc aataaaaaat taagtgtttt taacaactac cttatttttc actgtacaga cactaattca ttaataacta atgattgttt taaaagaaat ataaatgtga caagtggaca ttattatgt taaatataca attatcaagc aagtatgaag ttattcaatt aaaaatgccac atttctgtc tctggg </p>	Homo sapiens
115	1488	Endothelin A NM_001957 Receptor	<p> MQPPSLCGR ALVALVACG LSRIWGEERG FPPDRATPLL QTAEIMTPPT KTLWPKGSNA P SLARSLAPAE VPKGDRTAGS PPRTISPPPC QGPIEIKETF KYINTVWSCL VFVLGIIGNS TLLRIYKNK CMRNGPNILI ASLALGDLH IVIDIPINVY KLLAEDWPFQ AEMCKLVPF1 QKASVGITVL SLCAISIDRY RAVASWSRIK GIGVPKWTAV EIVLIWVSV VLAYPEAIGF DIITWDYKGS YLRICLLHPV QKTAEMQFYK TAKDNLFSF YFCLPLAITA FFYTLMTCEM LRKKSQMQIA LNDHLKQRRE VAKTVFCLVL VFALCWLPLH LSRIKLTLY NONDENRCEL LSFLVLVDYI GINMASINSC INPIALYLVS KRFKNCFKSC LCCWCQSFE KQSLEEKQSC LKFKANDHGY DNFERSNKYS SS gaattcgcgg ccgcctcttg cggctccaga gtggagtga aggtctggag ctttgggagg A agacggggag cacagacttg aggcgtgtc ctcggaggtt tctttttcgt tgcagagcct cgcgcgcgcg tacagtcatc ccgtgtgtc gacagtgtg gagagcggtt ggagagcctt catccatccc acccgctcgt cgcgggggat tgggttccca gcgacacctc cccggagaaa gcagtgcaca ggaagtcttc tgaagccggg gaagctgtgc agccgaagcc gccgcgcgcg cggaagccgg gacacggcc accctcgcg ccaccaccc tgccttctc cggcttctc tggccaggc gccgcggga cccgcagct gctcgcgac gccagctcc acgtgaaaa aaaaagtga ggtgtaaaag cagcacaagt gcaataagag atatttctc aaattgcct </p>	Homo sapiens

caagatggaa acccttggc tcagggcac cttttggctg gcactgggtg gatgtgtaat
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aatcctctcg gagaacaaaa tcacaaggca actgtgactc cgggaatctc ttctctgac
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atatgggctc aggtcacttt tattgaaat gtcatttggt gccagtattt tttaaactgca
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aatagtattc aggtgagcaa acaatacta caggccctta ttagattagt tttttttaa
acacaaattc taaagtacaa acaatacta caggccctta aagcacagtc tgatgacaca
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tcagtgact gtatatagaa gtctaaaca cacctaagag aaaagatcg aattttcag
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cacctctat tctcttaatt ttgttaaaa tgttaactgg cagtaagtct ttttgtatca
ttcccttttc catataggaa acataatttt gaagtgccca gatgagtta tcatgtcagt

116	1488	Endothelin A NP_001948.1 Receptor	gaaaaataat taccacaaa tgccaccagt aacttaaca tcttcactt ctgggggttt tcagatgaa cctaactcc caccaca tctccctcc acattgtcac catttcaaa ggccacagt gacttttgtt gggcattttc ccagatgttt acagactgtg agtacagcag aaaaatcttt actagtgtgt gtgtgtatat atataaaca ttgtaaattt cttttagccc atctttctag actgtctctg tggaatatat ttgtgttgtt gatataatga tgtgtgtgat ggatgtatg gatttaactt aatctaataa ttgtgcccc cagttgtgcc aaagtgcata gtctgagcta aaatctaggt gatgttcat catgacaacc tgcctcagtc cattttaacc tgtagcaacc ttctgcattc ataaatcttg taatcatgtt accattaca atgggatata agaggcagcg tgaagcaga tgagctgttg actagcaata tagggttttg ttgggttgtt tggtttgata agcagtat tggggtcata ttgtttcttg tgctggagca aaagtcatta cacttgaag tattatatg ttcttatctt caattcaatg tggatgata atggccaggt tgtctgatat ttctttcaga cttcgccaga cagattgctg ataataaatt agttaagata atttgttggg coatatattta ggacaggtaa aataacatca gttccagtt gcttgaattg caaggctaag aagtactgcc cttttgtgtg ttagcagtc aatctattat tccactggcg catcatatgc agtgatatat gcttataata taagccatag gtccacacca tttgttttag acaattgtct ttttttcaag atgctttgtt tctttcatat gaaaaaaatg cattttata attcagaaaag tcatagattt ctgaaggcgt caacgtgcat tttatttatg gactggtaag taactgtgtt ttactagcag gaatatctcc aatttctacc tttactacat cttttcaaca agtaactttg tagaaatgag ccagaagcca aggcctgag ttggcagtg cccataagtg taaaataaaa gtttacagaa acctt	Homosapiens
117	1598	Calcium-Sensing Receptor (CASR)	caacaggcac ctgggtgcag ccaggaagga ccgacgccc ttctgcgcag gagagtggaa ggaggagct gtttgccagc accgaggtct tgcggcacag gcaacgcttg acctgagtct tgcagaatga aaggcatcac aggagccctc tgcattgatg ggttcccaa gactcaagga ccaccacat tacaagtctg gatgaggaa tgcagaaatg gagattcaaa caccacgtct tctattattt tattaatcaa tctgtagaca tctgtcccca ctgcaggag tgaactgctc caaggagaaa acttctggga gctccaaac tcttagctgt cctatccctt gccctggaga gacggcagaa ccatggcatt ttatagctgc tgcctgggtcc tcttgccact cactgggac acctctgctt acgggccaga ccagcgagcc caaagaagg gggacattat ccttgggggg ctcttcccta ttcatttttg agtagcagct aaagatcaag atctcaaatc aaggccggag tctgtggaat gtatcaggta taatttccgt ggtttctgct ggttacaggc tatgatattt gccatagagg agataaacag cagccagcc cttcttccca actgacgct gggatcacagg atatttgaca cttgcaaac cgtttctaag gacttggaa cccctgag tttgttgtct caaaaacaaa ttgattcttt gaacttgat gacttctgca actgctcaga gcaattcccc	Homosapiens

tctacgattg ctgtgtgtgg agcaactggc tcaggcgtct ccacggcagt ggcaaatctg
ctggggctct tctacattcc ccaggtcagt tatgcctcct ccagcagact cctcagcaac
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aagcgttcca gcagccttg aggtctcacg ggatcaccc cctctctc catcagcagc
aagagcaaca gcgaagaccc attccacag ccgagaggc agaaagca gacgctgtg
gccttaaccc agcaagagca gcagcagcag cccctgaccc tcccacagca gcaacgatct

118	1598	Calcium- Sensing Receptor (CASR)	NP_000379.1	<p> cagcagcagc ccagatgcaa gcagaaggtc atctttggca gcggcacggt caccttctca ctgagctttg atgagcctca gaagaacgcc atggccacag ggaattctac gcaccagaac tccctggagg ccagaaaaag cagcgatacg ctgacccgac accagccatt actcccgctg cagtgcgggg aaacggactt agatctgacc gtccaggaaa caggtctgca aggacctgtg ggtggagacc agcgccaga ggtggaggac cctgaaggag tgtcccccag acttgtagt tcagttcac agagctttgt catcagtggt ggaggcagca ctgttacaga aaacgtagt aatcataaa atggaaggag aagactgggc tagggagaat gcagagaggt ttcttggggt cccagggatg aggaatgcc ccagactcct ttctctctgag gaagaaggga taatagacac atcaaatgcc ccgaatttag tcacaccatc ttaaatgaca gtgaattgac ccatgttccc ttt </p>	Homo sapiens
119	1676	Formyl Peptide Receptor- Like Receptor	NM_001462	<p> cagcagcagc acaactatt tgcaaatgtg gcgcaaacat tctgcctga caggaccatg A gacacaggtt gttagatag agatggctct gctgtgcat tcagcagatt ctgtagatag aattaatagg acttgatgg gattgtggtg agagaaagtg aaatgaaaga taagtcttag tttggaagtt ttaacaactg aatgtttaa ctcaataga caaaaaatat tggagagagt gcaggtttgg gaggtgaga caatcaactg tbtggttagg ccacgttagg ttgaaatgt ctacgggatc ccgtggggag aggttatatc agactggagc accagagaga ggccaaggct gatagtttag atgaaagag agcttatatc ttttagccct gactggat aatatcacct atagaagac tatatagaga taagagaggt gggaacaaag taaagctgc gggacactcc taaatttaga gtcaaattta gagcagaaaa tactagcaaa gggactgaa aagcgtgtggc caattgagct tcaaatgcaa gtgaaagtgt gttgtgtgta cattatcat ctcatggcac aggaataacg tgatttaagg agaaggaagc gatcaatgg gaagaagaga tccaatggat cctctatcac gaagatattg agataagaac caataggat ttgcacccac tgcatttgca gccttgaggt cataagcatc ctacaggaaa gctcgtggga agatgggaaac </p>	Homo sapiens

120	1676	Formyl Peptide Receptor- Like Receptor	NP_001453.1	caacttctcc actcctctga atgaatatga agaagtgtcc tatgagtctg ctgggtacac tggtctgagg atcctcccat tgggtggtgct tggggtcacc tttgtctctg gggctcctggg caatgggctt gtgactctggg tggctggatt ccgatgaca cgcacagtca ccaccatctg ttacctgaac ctggccctgg ctgacttttc ttgctcggcc acattaccat tctcattgt ctccatggcc atgggagaaa aatggccttt tggctggctt ctgtgtaagt taattcacat cgtggtggac atcaacctct tgggaagtgt ctctctgatt ggtttcattg cactggaccc ctgcatttgt gtcctgcac cagctcgggc cagaaaccac cgcactgtga gtctggccat gaaggtgac gtcggacctt ggattcttgc tctagtccct acctggccag ttttctcttt tttgactaca gtaactattc caaatgggga cacatactgt actttcaact ttgcatactg gggtggcacc cctgaggaga ggctgaaggt ggcattacc atgctgacag ccagagggat tatccggttt gtcattggct ttagcttgcc gatgtccatt gttgccatct gctatgggct cattgcagcc aagatccaca aaaaggccat gattaaatcc agccgtccct tacgggtcct cactgctggt gtggcttctt tcttcatctg ttgggttccc ttccaactgg ttgcccttct gggcaccgtc tggctcaag agatgttgtt ctatggcaag tacaataatca ttgacatcct ggttaaccca acgagctccc tggccttctt caacagctgc ctcaaccca tgcctttacgt ctttgtggc caagacttcc gagagagact gatccactcc ctgcccacca gtctggagag ggccctgtct gaggactcag ccccaactaa tgacacggct gccaatctg cttcacctcc tgacagagact gagttacagg caatgtgagg atggggctcag ggatatattg agttctgttc atcctaccct aatgccagtt ccagcttcat ctacccttga gtcataattga ggcattccaag gatgcacag tcaagtattt attcaggaaa aatgcttttt tgcctctgat ttggggctaa gaaatagaca gtcaggctac taaaatatta gtgttatttt ttgttttttt acttctgctt atccccctgg gtaagtgagg tbgggaaaata caagaagaga aagaccagtg gggatttgta agacttagat gagatagcgc ataatagggt gaagacttta aagtataaag taaaatgttt gctgtagggt ttttatagct attaaaaaaa atcagattat ggaagttttc tctatttttt agtttgctaa gagtttctctg tttcttttct tttcttttct ttacatcatg agtggacttt gcatttttct aaatgcattt tctacatgta ttaagatggt catattattc tcttcttttt atgtaaaatca ttataaataa tgttcattaa gttctgaatg ttaaaactact cttgaattcc tggaataaac cacacttagt cctgatgtac tttaaatatt tatatctcac aggagtgtgt tagaatttct gtgtttatgt ttatatactg ttatttact ttttctacta tcttctgtaa gttttcatag aaaaaagg acaaaagaaa acttgaatg gtctctgaaa aggaattgag aagtaattcc tctgattctg tttctggtg ttatatcttt attaaatatt cagaaaaatt c tctgattctg tttctggtg ttatatcttt attaaatatt cagaaaaatt c	Homo sapiens
121	1681	Follicle Stimulating Hormone Receptor	NM_000145	TICYNLALA DESFTATLPP LIVSMANGEK WPGWFLCKL IHVVDINLF GSVFLIGFIA LDRICVLHP VWAQNHRTVS LAMKVIVGPW ILALVLTLPV FLFLTVTIP NGDTYCTFNF ASWGTPEER LKVAITMLTA RGIIRFVIGF SLPMISIVAIC YGLIAAKIHK KGMIKSSRPL RVLTAUVASF FICWFPFQLV ALLGTWVWKE MLFYGKYKII DILVNPTSSL AFNNSCLNPM LYVFGQDFR ERLHSLPTS LERALSEDSA PTNDTAANSA SPAETELQA M cgctgagatc tgggaggtt tttctctgca aatgcagaaa gaaatcaggt ggatggatgc A ataattatgg cctgtctcct ggtctcttgg ctggcattcc tgagcttggg ctgaggtatg catcatcgga tctgtcactg ctctaacagg gtttttctct gccaaagag caaggtgaca gagattcctt ctgacctccc gaggaatgcc attgaactga ggtttgtcct caccaagctt	Homo sapiens

122	1681	Follicle Stimulating Hormone Receptor	NP_000136.1	<p> cgaatcatcc aaaaaggtgc attttcagga ttgtggggacc tggagaaaaat agagatctct cagaatgatg tcttgagggt gatagaggca gatgtgttct ccaaccttcc caaattacat gaaattagaa ttgaaaaggc caacaacctg ctctacatca cccctgaggc cttccagAAC cttcccaacc ttcaatatct gtaatatatc aacacagttc ttaagcacct tccagatgtt cacaagattc attctctcca aaaggtttta cttgacattc aagataaact aaacatccac acaattgaaa gaaattcttt cgtggggctg agcttggaaa gtgtgattct atggctgaat aagaatggga ttcaagaaat acacaactgt gcatccaagt gaacccaact agatgcagt aatctaagcg ataataataa tttagaagaa ttgcctaagt atgttttcca cggagcctct ggaccagtca ttctagatat ttcaagaaca aggatccatt cctgccttag ctatggctta gaaaatctta agaagctgag ggccaggtcg acttacaact taaaaaagct gctactctg gaaaagcttg tgcctctcat ggaagccagc ctacactatc ccagccattg ctgtgccttt gcaaaactgga gacggcaaat ctctgagctt catccaattt gcaacaaaatc tattttaagg caagaagtgg attatatgac tcaggctagg ggtcagagat cctctctggc agaagacaat gagtcagct acagcagagg atttgacatg acgtacactg agtttgacta tgacttatgc aatgaagtgg ttgacgtgac ctgtctccct aagccagatg cattcaacc atgtgaagat atcatggggt acaacatcct cagagtcctg atatggttta tcagcatcct ggccatcact gggaacatca tagtgctagt gatcctaact accagccaat ataaactcac agtccccagg ttccttatgt gcaacctggc cttgtgtgat ctctgcatg gaatctacct gctgctcatt gcatcagttg atatccatc caagagccaa tatcaaaact atgccattga ctggcaaat ggggcaggct gtgatctgc tggcttttc actgtctttg ccagtgagct gtcagctctac actctgacag ctatcacctt ggaaagatgg cataccatca cgcattgccat gcagctggac tgcaaggtgc agtcccgcca tctgtccagt gtcattggtg tgggctggat ttttgccttt gcagctgccc tctttcccat ctttggcatc agcagctaca tgaaggtgag catctgacctg cccatggata ttgacagccc ttgtgcacag ctgtatgtca tgcctctct tgtgtctcaat gtctggcct ttgtggctcat ctgtggctgc tatatccaca tctacctcac agtgcggAAC cccaacatcg tgtctctctc tagtgacacc aggatcgcca agcgcattggc catgctcact ttcaactgact tctctgcat ggaacctatt tcttctcttg ccatttctgc ctccctcaag tgccccctca tcaactgtgc caaagcaag attctgctgg ttctgtttca cccatcaac tctgtgcca acccttctc ctatgccatc ttaccacaaa actttcgag agatttcttc attctgctga gcaagtgtgg ctgctatgaa atgcaagccc aaatttatag gacagaaact tcatccactg tccacaacac ccatccaagg aatggccact gctcttcagc tccagagtc accagtgggt ccaattacat actgtccct ctaagtcatt tagcccaaaa ctaaaaacaca atgtgaaaaat gtatctgagt attgaatgat aattcagctc ttgcttttga aggtatgtg acaaggagct gacagtgtt ctacacattt catctaattt aatattctcg geataccttt aaggtaaaat ggtcaggAAC tattaattcc atgtgataca tttaggaagt gaattattag taacaacaat aataataaa gaatgcaata ctgtaaaaaa gcggccgcga att </p>	Homo sapiens
122	1681	Follicle Stimulating Hormone Receptor	NP_000136.1	<p> MALLVSLLA FLISGSGCH RICHENRVF LCQESKVEI PSDLPNAIE LRFVITKLRV P IQKAFSGFG DLEKIEISON DVEVIEADV FSNLPKHEI RIEKANNLLY ITPFAFQNL P NLQYLLISNT GIKHLPDVHK IHSLOKVLDD IQDNIHITI ERNSFVGLSF ESVILWLKN GIQEIHNCAF NGTQLDAVNL SDNNLEELP NDVFHGASGP VLDISRTRI HSLPSYGLN LKKLRARSTY NLKKIPTLEK LVALMEASLT WRRQISELHP ICKNSILRQE </p>	

123	1726	G Protein- Coupled Receptor RDC1	U67784	<p>gccaactcgg tgggtggtcg ggtgaatc caggccaaga ccacaggcta tgacacgcac A</p> <p>tgctacatct tgaacctggc cattgccgac ctgtgggttg tccctaccat cccagctcgg</p> <p>gtggtcagtc tctgtcagca caaccagtgg cccatgggag agctcacgtg caaagtcaca</p> <p>cacctcatct tctccatcaa cctcttcagc agcattttct tccctacgtg catgagcgtg</p> <p>gaccgctacc tctccatcac ctacttcacc aacaccccca gcagcaggaa gaagatggtg</p> <p>cgccgtgctg tctgcactct ggtgtggctg ctggccttct gctgtcctc gctgacacc</p> <p>tactacctga agacctcac gctgtgctgc acaaatgaga cctactgccc gtccttctac</p> <p>cccgagcaca gcatcaagga gtggctgac ggcatggagc tggctcctgt tgccttgggc</p> <p>tttgccgttc ccttctccat tctgcctgac ttctacttcc tgcctggccag agccatctcg</p> <p>ggtgccagt accaggagaa gcacagcagc cggaagatca tcttctccta cgtggtggtc</p> <p>ttccttgtct gctggtgccc ctaccacgtg gcggtgctgc tggacatctt cctcatctcg</p> <p>cactacatcc ctttaccctg ccggctggag cagccctctc tcacggccct gcctgtcaca</p> <p>cagtccctgt cgctggtgca ctgctgcgtc aacctgtccc tctacagctt catcaatcgc</p> <p>aactacaggt acgagctgat gaaggccttc atcttcaagt actcggccaa aacagggtc</p> <p>accaagctca togatgcctc cagagtctca gagacggagt actctgctt ggagcagagc</p> <p>accaaatgat ctgcccctga gaggctcttg gacgggttta cttgtttttg aacagggtga</p> <p>tgggccctat ggttttctag agcaaaagcaa agtagcttcg ggtccttgatg cttgagtaga</p> <p>gtgaagaggg gagcacgtgc cccctgcac cattyctctc ttctcttgat gacgcagctg</p> <p>tcatttggct gtgcgtgctg acagtcttgc aacaggcaga gctgtgtgc acagcagctg</p> <p>tggtgcgtcag agccagctga ggacaggctt gctgggactt ctgtaagata ggattttctg</p> <p>tggttccctga atttttata tgggtgattg tatttaaat ttaagacttt attttctcac</p> <p>tattggtga cctataaat gtattgaaa gtaaatata ttttaaatat tgtttgggag</p> <p>gcatagtgct gacataatc cagagtgttg tagttttaag gttagcgtga ctttcagttt</p> <p>tgactaagga tgacactaat tgttagctgt ttgaaatta tatatatata aatatataa</p> <p>tatatgccag tcttggctga aatgttttat ttaccatagt ttatatctg tgtggtgttt</p> <p>tgtaccggca cgggatatgg aacgaaaact gctttgtaac gcagtttctg acattaaatg</p> <p>tattgtaaa gttacattta aaataaaca aaaaactgtc tggactgcaa atctgcacac</p> <p>acaacgaaca gttgcatttc agagagtctc ctcaatttgt aagttatttt ttttaataa</p> <p>agatttttgt tctcaaaaa aaaaaaaa aaaaa</p>	Homo sapiens
124	1726	G Protein- Coupled Receptor RDC1	AAA62370.1	<p>MDLHFDYAE PCNFSDISWP CNSDDCIVD TVMCPNMPNK SVLLYTLSEI YIFIVIGMI P</p> <p>ANSVVVWNI QAKTGYDTH CYLINLAID LMVLTIPVW VSLVQHNQW PMGELTCKVT</p> <p>HLIFSINLFS GIFFITCMSV DRYLSITYFT NTPSSRKQV RRVVCILVWL LAFCVSLPDT</p> <p>YYLKTVTSAS NNETYCRSFY PEHSIKEWLI GMELVSVLFG FAVPFIIAV FYELLARAI</p> <p>ASSDQEKHSS RKIIFSYYV FVVCWLPYHV AVLLDIFSIL HYIPFTCRLE HALFTALHVT</p>	Homo sapiens

125 1762 Galanin Receptor GalR1 NM_001480 Homo sapiens

QCLSLVHCCV NPVLYSFINR NYRYELMKAF IFKYSAKTGL TKLIDASRV5 ETEYSALEQN
AK
atccccgtag aatccggtcca gtctctgctc ggcacccgtg acttctaagg ggcgcggatt A
tcagccgagc tgttttccgc tctcagttgc agcagagaag cccctggcac ccgactctat
ccaccaccag gaagctctcc aaaaagctc tcgcccctgt gacgactcgg aatccctgga
aaagcccgga ggaagtccga ggcgccagc cactggggag gtgcgctgg ggcgcggga
tgccgcgga gcttctctg caggagccgc acagtgcact gctgcgct ggcagtgccg
gggaagccc gcgggaagga gcggctccga gcaacaggtg cagcacgcag ccgctccggg
agccagggaa aaccgccgc gaagatctgg agcggtaagg cggagagaa ggtcttccca
cctgcgcgc tgcagccgc ggaatccctc tcccaggctc cgtggtcgcg cagcgggcgg
agcgccccg gcaggggacc ccagtgtct ccagatcacc gtcccttccc gagaaggtcc
agctccggc tcccgaacc accctctctc agaaggtcgc ggcgcaaa cggtgccacc
aggcacggc accggatccc cgtcccgct ggctcgccg ccgggggaag ctcagactcc
taaaactgca ctctccgtg tttgcgcgc gaccctggc caccctggc gctgtctatc
ccgcccctcc tcccgcgcg ccccgccgt cgcggggaca gcccgcggg ccatggagct
ggcggtcggg aacctcagc agggcaacgc gactggccg gagcccccg ccccgagcc
cgggcccgtg ttccgcatcg gcgtggagaa ctctgtcag ctggtggtg tcggcctgat
cttcgcgctg ggcgtgctg gcaacagcct agtgcacc agtgcgtgc gcagcaagcc
gggcaagccg cggagcacc ccaacctgtt catcctcacc ctgagcctcg ccgacctggc
ctacctgct tctgcacc ccttccagg caccgtgtac gcgctgcca cctgggtgct
ggcgccctc atctgcaagt tcatccacta ctcttccacc gtgtccatgc tggtagacat
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ctctccctc aggggtgctc gcaacgcgt cgtggcgctg gctgcatct ggcgcgtgc
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cacttcctc ttgcataaaa agttgaagaa catgtcaaa agtctgaag catccaagaa
aaagactgca cagacagtgc tgggtggtgt tgggtgtgtt ggaatctcct ggcgtccgca
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cttcagaatc accgccact gcctggcgta cagcaattcc tccgtgaatc ctatcatita
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caaagattca cactgagtg atactaaga aataaaagt cgaatagaca cccaccatc
aaccaattgt actcatgtg ataaaaagt agagtatcct tatggttgag ttccatata
agtggaccag acacagaaac aaacagaatg agctagttag cgaatgctga actgtttatc
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acatatatat tccatatata tgttcaactc ttcatagatt gtgaactggc ccatcaatat
ggtcaggaaat atttgcagtc tacattttaa agccaattta tttagaaaa aaatttgagc
tttaattctt taattttaag agaagtaata ttggaacta tgtattttta aatatgatca
tgacacacac atgatgaatt ttttgcccat ttacatagac atatttatta agtggaaaga

144/448

Homo
sapiens

P

aggctttctg aagtctgttt gcacaggtgg catttgcttc caattgttagc tagcgacacag
 agctttggaa gctgtgctatt atgagataca gtcgggtttac ctcaggagtc aattcagtg
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 ttgatgtgtg tttaacaatga gaaaatggca tgaataatatt aaattgtctt gtagc
 NP_001471.1 MELAVGNLSE GNASWPEPPA PEPGLFGIG VENVTLVVF GLIFALGVIG NSLIVITVLAR P
 SKFGKPRSTT NLFILNLSIA DLAYLLFCIP FOATVYALPT WVIGAFICKE IHVFFTVSML
 VSIFTLAAMS VDRYVAIVHS RRSSSLRVSR NALLGVGCIW ALSIAMASPV AYHQGLFHPR
 ASNQTFCEWEQ WPDPRHKKAY VVCTFVFGYL LPLLICFCY AKVLNHLHKK LKNMSKKSEA
 SKKTAQTVL VVVVFGISW LPHHIIHLWA EFGVPELTPA SELFRITAHG LAYSNSVNP
 IIVAFLENF RYAKQVFKC HIRKDSHLSL TKENKSRIDT PPSTNCTHV

NP_001471.1

Galanin
Receptor
GalR1

1762

126

Homo
sapiens

A

ggcagcggtg cagggggctg caggagcaag tgaccaggag caggactggg gacaggcctg
 atcgcccttg cagcaaccag acctctgcgc gccctaccca tgactacccc tccgactcctg
 cagctgctgc tgggctctc actgtgcggg ctgctgctcc agaggcgga gacaggctct
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 ctgagccgag accgtctgct accctgacct ggccttacc ttggggacca ggccttggc
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 gcccctgcgt tcgccaagct cggctttgag atctctcca ggccttcca ggccttccg
 gtcagcgctc tctactgctt catacaaa gagggtcagt cggagatccc cgtggctg
 caccactgcc gctgagccg cagcctgggc gagaggaac gccagctccc ggagcgcgcc

NM_000164

Gastric
Inhibitory
Polypeptide
Receptor

1808

127

128	1808	Gastric Inhibitory Polypeptide Receptor	NP_000155.1	<p> tccggggccc tgcctccgg ctccggcccg ggcgaggtcc ccaccagccg cggcttgctc tcggggaccc tccagggcc tgggaatgag gccagccggg agttggaaaag ttactgctag ggggcgggat ccccggtctt gttcagttag catggattta ttgagtcca actgctgccc aggcccgta cggaggacgc tggggaatg gtgaaggaaa cagaaaaag gtcctgccc ttctggagat gacaaactgag tggggaac agaccgtgaa ccaaaacat caagtccac acacgctatg gaatggttat gaagggaagc gagaagggg cctagggtg tctggaggc gtctcaagg aggtgacact taagccatcc ccgaaagag tgaagagat cactttgggg agagctggag aacaggattc taggcggaag cgatagcata ggcaaggcc cttgggcagg aaggcgctca gcttggtctg gagtagaatt aagtcagagc caacaggtt gggagagaca gagaagtgg caggggcacc caagtggga tticatttca ggtgcattgg agattcttag gagtgctct tgggggtaatt attttattt ttaaaaaatg aggat </p>	Homo sapiens
129	1813	Gastrin- Releasing Peptide Receptor	NM_005314	<p> cngsfmivc wdyaapnata rascpwyfwp hhhvaagfvl rccgsdgwg lwrhdtqcen pkneafldq rllrlqlqvm ytvgsyslsa tillallils lfrrlhctrn yihlnlftsf mlraaailsr drllprpgpy lqdqalalwn qalacrtaq ivtqycvgan ytwlllvegv lhslvlvgg seegheryyl llgwgapalf vipwivryl yentqcwern evkaiwiiir tpilmtilin flifirilgi llsklrtrqm rcdyrlrla rstltlvpil gvhevfpv teqargalr falgfelfl spfqgflvsv lycfinkevq seirrgwhhc rlrrslgeeq rolperafra lpsgsgpev ptsrglssgt lpgpgneasr elesyc ccagattcta aatatcagga agacgctgt gggaaaaag caggccaaa gttcttagta a aactgcagcc agggagactc agactagaat ggaggtagaa agaaactgat cagagtgggt ttaattctaa gccttttctt gctaagtctt tgtgtgtgtt aacttattga atttagagtt gtattgcact ggtcatgtga aagccagagc agcaccagtg tcaaaatagt gacagagagt tttgaatacc atagttagta tatatgtact cagagtattt ttattaaaga aggcataag ccggcatag atcttatctt catcttcact cgggtgcaa atcaatagtt agaaaaatagc atctaaggga acttttaggt gggaaaaaaa atctagagat ggtctaaaat gactgtttcc ttctgaactt ggaggtggac catttcacg actgcaacat ctccagtcac agtgcggatc tcccgtgaa cgatgactgg tcccaccgg ggatcctcta tgtcatcctt gcagtttatg gggttatcat tctgataggc ctcatggga acatcaactt gatcaagatc ttctgtacag tcaagtccat gcgaaacgtt ccaaacctgt tcatctccag tctggctttg ggagacctgc tctctcta aactgtgtct ccagtggatg ctgacccct ttatacagct taactctgtt ggggtgtctg ttggcaggat tggctgcaaa ctgacccct tgcagagaca gatacaaaag ccaatggata tcttcacact cacggcgctc tcggcagaca gctcaaatc gctcaaacg cgtcttctt tccaggcctc ccagccctg atgaagatc tctgtgacct ccatccctc catgaggaaa ccatgctgct ggccattcca gaggcctgt tctgtgacct ccatccctc catgaggaaa gcaccaacca gacctcaat agctgtgccc cataccaca ctctaagatg cttcacccca aaatccattc tatggcttcc tttctggtct tctacgtcat cccactgtcg atcatctctg tttactacta cttcatgtct aaaaatctga tccagagtgc ttacaatctt cccgtggaag ggaatataca tgtcaagaag cagattgaat cccggaag actgccaag acagtgtctg tgttgtggg cctgttcgct tctgtgtgg tcccaatca tgtcatctac ctgtaccgt cctaccacta ctctgaggtg gacacctcca tgtccactt tgtcaccagc atctgtgccc </p>	Homo sapiens

130	1813	Gastrin- Releasing Peptide Receptor	NP_005305.1	<p>gctctctggc cttcaccaac tcttgctga accctttgc cctctacctg ctgagcaaga gtttcaggaa acagttcaac actcagctgc tctgttgcca gcttgccctg atcatccggt ctcacagcac tggaaggagt acaacctgca tgacctccct caagagtacc aacctctccg tggccacctt tagctctatc aatggaaca tctgtcacga gcggtatgtc tagattgacc cttgattttt ccccttgagg gacgggtttt ctttatgctt agacaggaac ccttgcatcc attgtttgtt cctgtccctc caaagagcct tcagaatgct cctgagtgtt gtagtgggg gtggggaggc ccaaatgatg gatcaccatt atatttgaa agaagc</p>	Homo sapiens
131	1814	Cholecystoki nin B Receptor	NM_000731	<p>MAINDCFLN LEVDHEMHCN ISSHSADLPV NDDWSHPGIL YVPAVYGI ILI GLIGNIT P LIKIFCTVKS MRNVNLFIS SLALGDLILL ITCAPVDASR YLADRWLFGR IGCKLIPFIQ LTSVGVSFT LTALSADRYK AIVRPMIDQA SHALMKICKL AAFIWIISML LAIPEAVFSD LHPFHEESTN QTFISCAPYP HSNELHPKIH SMASFLVYV IPLSIIISVY YFIKNLIQS AYNLPVEGNI HVKKQIESRK RLAKTVLVFV GLFAFCWLPN HVYLYRSYH YSEVDTSMH FVTSICARLL AFTNSCVNPF ALYLLSKSFR KQFNTQLCC QPGLIIRSHS TGRSTTCMTS LKSTNPSVAT FSLINGNICH ERYV</p>	Homo sapiens
131	1814	Cholecystoki nin B Receptor	NM_000731	<p>atggagctgc tcaagctgaa ccggagcgtg cagggaaccc gacctgggccc gggggcttcc A ctgtgccgc cggggggccc tctctcaac agcagcagtg tgggcaacct cagctgcgag ccccctgca ttccgggagc cgggacacga gaattggagc tggccattag aatcactctt taagcagta tcttctctgat gacgttga ggaatatgc tcatcatcgt ggtcctggga ctgagccgcc ccttgaggac tgtcaccat gcttctctcc tctcactggc agtcagcgac ctcctgctgg cctgtggcttg catgcccttc acctcctgc ccaatctcat gggcacattc atctttggca cctgcatctg caaggcgtt tctacactca tgggggtgtc tgtgagtgtg tccacgctaa gctcgtggc catcgactg gagggtaca gggccatctg ccgaccactg caggcacag tttggcagac gcgtccccc gcgctccgc tgaattgtag cactggctg ctgtccggac tactcatggt gccctacccc gtgtacactg tctgtcaacc agtggggcct ctgtgcttc tgccttgtt cttcatccc ggtgtggtta tggccgtggc ctacgggctt atctctcgc agctctactt agggcttcgc ttgacggcg acagtgcag cgcagccaa agcagggtcc gaaccaaag cgggctgcca ggggctgttc accagaacgg gcgttgccgg cttgagactg gcggtgttg cgaagacagc gatggctgct acgtgcaact tccagttcc cggcctgccc tggagctgac ggcgtgacg gctccagggc cgggatcccg ctcocggccc accagggcca agctgctggc taagaagcgc gtgtgctgaa tgttctggt gatcgtgtg ctttttttc tgtgttgtt gccagtttat agtgccaaca cgtggcgcg ctttgatggc ccgggtgcac accgagcact ctcgggtgct cctatctct tcatcactt gctgagctac gcctggcct gtgtcaaccc cctgtgctac tgttctatgc accgtcgtt tgcacaggcc tgcctggaaa cttgggtcgc ctgtgcccc cggcctccac gactcgcct cagggtctt ccgatgagg accctccac tccctccatt gcttgcgtgt ccaggcttag ctacaccac atcagcacac tgggcccctg ctgaggagta gaggggcctt gggggttag gcaggggcaa tgacatgcac tgaccttcc agacatagaa aacacaaacc acaactgaca caggaaacca acaccaaag catggactaa ccccaacgac agaaaaaggt agctacctg acacaaggg aataagaatg gagcagtaca tgggaaagga ggcactcctc tgatatggga ctgagcctgg cccatagaaa catgacactg accttgagga gcacacagct ccttagcagt gaactattc</p>	Homo sapiens

132	1814	Cholecystoki nin B Receptor	NP_000722.1	<p> taccacagtgg gaactctgac aagggtgac ctgacctca cacacataga ttaatggcac tgattgtttt agagactatg gagcctggca caggactgac tctgggatgc tctagtgtg acctcacagt gaccttccc aatcagcact gaaataacca tcaggcctaa tctcatacct ctgaccaaca ggctgttctg cactgaaaag gttcttcagt ctttccagt taaggacctg ggccctggcc tctcttctt tcccaaaactg ttcaagaat aataaatgt ttggcttctt cctgaaaaaa aaaaaaaaaa aaaaaaaaaa aggaattcc MELLKLNRSV QGTGPGPGAS ICRPGAPLIN SSSVGNLSCE PPRIRGAGTR ELELAIRTL P YAVIFLMSVG GNMLIIIVLG ISRLRLVTN AFLSLAVSD LLLAVACMPF TLLPNLMGTF IFGTVICKAV SYLMGVSVSV STLSLVAIAL ERYSAICRPL QARVWQTRSH AARVIVATWL LSGLLMVPYP VYTVVQPVGP RVLQCVHRWP SARVRQTSV LLLLLLFFIP GVWMAVAYGL ISRELYLGLR FDGSDSDSQ SRVRNQGLP GAVHQNGRCR PETGAVGEDS DGCYVQLPRS RPALELTALT APGPGSGSRP TQAKLLAKR VVRMLLVIV LFFLCWLPVY SANTWRAFDG PGAHRALSQA PISFIHLISY ASACVNPLVY CFMHRFRQA CLETCARCCP RPPRARPRAL PDEDPTPSI ASLSRLSYTT ISTLGP </p>	Homo sapiens
133	1834	Glucagon Receptor	NM_000160	<p> ggatctggca gcgcgcgca gacgagcgt caccggcgcc cgaccggagc gcgccagag A gacggcgggg agccaagccg acccccagc agcgccgcg gggccctgag gctcaaaggg gcagcttcag gggaggacac ccacttgcc aggacgccc aggtctgct gctctgccac tcagctgcc tcggaggagc gtacacac accaggactg cattgcccc gtgtgcagcc cctgccagat gtggaggca gctagctgcc cagaggctg cccccctgcc agccacagc acctctgctg ctgttgctg tgctgctgg ctgccagcca caggtccct cogctcaggt gatggacttc ctgtttgaga agtgaagct ctacggtgac cagtgtcacc acaacctgag ctgtctgcc cctcccacgg agctggtgtg caacagaaac ttcgacaaagt attcctgctg gcgggacacc ccggccaata ccacggccaa catctcctgc cctggtaacc tgccttgcca ccacaaagt caacaccgt tctgtttcaa gagatgcgg cccgacggc agtgggtgcg tggaccccgg ggcagcctt ggcgtgatgc ctccagtgcc cagatggatg gcgaggagat tgaggtccag aaggaggtgg ccaagatga cagcagcttc caggtgatgt acacagtggtg ctacagcctg tccctggggg cctgctcct cgccttgccc atcctggggg gctcagcaa gctgcactgc accgcaatg ccatccacgc gaatctgtt gctccttcg tctgaaagc cagctccgtg ctggtcattg atgggtgct caggacccgc tacagccaga aaattggcga cgacctcagt gtacgacct gctcagtga tggagcggg cctggctgcc gtgtggccgc ggtgttcattg caatatggca tctgtggcca tggccacctt cccgagagg agcttcttca gctctacct cctgcacaa cttggtggcc ccatgtgtt cgtctgccc tgggcatggt tcaagtgtct gttcgagaaac gtccagtgt ggaccagcaa tggacaacatg ggcttctggt ggatcctgcg gttccccgtc tctctggcca tcttgatcaa ctcttctatc tctgtccgca tctgtcagct gctgtggccc aagctgcggg cagggcagat gaaccacaca gactacaaagt tccggctggc caagtccacg ctgacctca tccctctgct ggcgttccac gaagtgtct ttgccttcgt gacggacgag cagcccaggg gcacctgcg cctccttcg ctcttcttcg acctcttct cagctccttc cagggcctgc tgggtggctgt cctctcaaga aggaggtgca gtcggagctg cggcggcggtt ggcacggctg gcgctgggc aaagtgtctat gggaggagcg gaacaccagc aaccacaggg cctcatcttc gcccggccac ggcctccca gcaaggagct </p>	Homo sapiens

Homo
sapiens

134 1834 Glucagon Receptor NP_000151.1

gcaggtttggg aggggtggtg gcagccaggga ttcattctgag gagacccct tggctggtgg
 cctccctaga ttggtgaga gcccttctg aacctgctg ggacccagc taggctgga
 ctctggcacc cagaggctc gctggacaac ccagaaactgg acgccagct gaggtgggg
 gcgggggagc caacagcagc cccacacctac ccccccacc cagtgtggtc gtctgcgaga
 ttgggacctc tctccctgca cctgcttctg cctgctgca gaggtgagca gaggtgcca
 ggccgggagt gggtggtggt ccgtgaaactg cgtgccaagt tccccacgta tgtcggcagc
 tcccatgtgc atggaatagt cctccaacaa taaagagctc aagtgtgac cgtg

135 1925 Gonadotropin -Releasing Hormone Receptor NM_000406

Homo
sapiens

135 1925 Gonadotropin -Releasing Hormone Receptor NM_000406

ttggttgcgt gtccacttac aaacactttt catatttcta tgccttcca atggttatcc A
 tgttttcttc atttcaggca tatggccctg atcagattaa ctgacatgat gtatatgcaa
 agccttttga gtcttcaga aaaaataaatt atcttattca agactgattg cttataagga
 acttattata gctaataatg taggcacaat ttttttttga attctctag atgagtgcga
 acttagtttt gatgtagga aaaaattttat ggtcacaaa ctgaggtgtg agaaaatctc
 ttcccttgat actctatata aatagaggat ataaatattt caagtctgga agtagtgaga
 gaagctggga attctggaca tatagtga gtcacaaaag agctcaggta caggactggt
 ctaagctgct caagattcag gagacagcca gtacacagag aagctgagga aataatcacg
 atatatctaa aacacttctc taaccttctg tggtaacaa ctccttaag gggctggatg
 atgttgtgtt cactttttat caccagcaa ggctaagata atgtatatag taaatattta
 gtaaccattt attaaataaa taaatattta agacagaata aacaagtata ataaatgaac
 caataagaat gcaccttcta agtcaaaaata gccactttta tccctaacat tgtacctgct
 ttggctgctg cagaagcaaa cttgttggca ttagacaaa caagctggtg atttaataaa
 ttcaaatgta agtcttaccg gtattgatga ataactatcc agcactcacc atgaaagtta
 aagaagcaac acagaaaaag ttctaagtgt gtcccaattt gaaatgatca gataacctat
 aagaagaacat attcatatta tactaacata aacacatata aatgcactta cagcagttac
 acagtattct cttcaataac tagtttctt atgcattaat gtgaaataac agcaactaca
 atatttagat aattataaaa accaaggcaa taatttaaac atgattaac cgttttactc
 taacttaagc atgatttga tcagtaagat tgattataaa atttgaatgc agtcagtgg
 attgattcta atttaagt ttaatttgtt gtagaataat tttaagtga tatatttgc
 cagtgttcga gtgtcaaca gtgtgtttga aaagaaaac aaagaatgtt ttgagaatgt
 gtaatttctc taagacaatg gattttaatt ggaatgtgtt ttttcatatt tcttcattat
 cattatacat ctgtatgttg gacagaacac taacactaaa tagtttttag aaagtgtttt
 ttgaagtatt ttaaatcata atatcatgac agacttttga attcaaaatt aggtgtgac
 tatccttctt cacttaggaa gagtgtgtgt aagccagac catctgctga ggtgctacag
 ttacatgtgg cctcagaat gcgtttggcc tgcctctgtt tagcactctg ttggattacc

136	1925	Gonadotropin -Releasing Hormone Receptor	NP_000397.1	<p> aatacacaaa acaagttaac ctttgatctt tcacattaag tatctcaggg acaaaatttg acatacgtct aaacctgtga cgtttccatc taaagaaggc agaaataaaa catggacttt agattcgggtt acaataaaat atcagatgca ccagagacac aaggcttgaa gctctgtcct gggaaaatat ggcaaacagt gcctctcctg aacagaatca aaatcactgt tcagccatca acaacagcat ccactgatg cagggaacc tcccactgt gacctgtctt ggaagatcc gagtgaagggt tactttcttc ctttttctgc tctctcgac ctttaagtct tctttctgt tgaaccttca gaagtggaca cagaagaaag agaaaggaa aagctctca agaataagc tgctcttaaa acatctgacc tttagccaac tgttgagac tctgattgtc atgacctgg atgggatgtg gaacattaca gtccaatggt atgctggaga gttactctgc aaagtctca gttatctaaa gcttttctcc atgtatgcc cagccttcat gatggtggtg atcagcctgg accgctccct ggctatcacg aggcccttag ctttgaaga caacagcaa gtccggacagt ccatgggttg cctggcctgg atcctcagta gtgtctttgc aggaccacag ttatacatct tcaggatgat tcatctagca gacagctctg gacagacaaa agttttctct caatgtgtaa cacactgcag tttttcaca ttgtggcctc agcatctta taactttttc accttcagct gcctcttcat catcctctt ttcactatgc tgatctgcaa tgcaaaaatc atcttcaccc tgacacgggt ccttcatcag gacccccag aactacaaat gaatcagtc aagaacata taccagagc acgctgaag actctaaaaa tgacggttc atttgccact tcatttactg tctgctggac tccctactat gtcttaggaa tttggtattg gtttgatcct gaaatgttaa acaggtgtgc agaccagta aatcacttct tctttctctt tgccctttta aacctatgct ttgatccact tatctatgga tattttctc ttgtga </p>	Homo sapiens
137	1945	Opsin, green- sensitive	NM_000513	<p> MANASPEQN QNHCSAINNS IPLMQNLPT LTLGKIRVT VTFPLFLLSA TFNASFLKL P QKWTQKKEG KKLSRMKLL KHLTLANLLE TLIWPLDGM WNITVQWYAG ELLCKVLSYL KLFSMYAPAF MMVVISIDRS LAITRPIALK SNSKVGQSMV GLAWILSSVF AGPOLYIFRM IHLADSSQT KVFSQCWTHC SFSQWHQAF YNFTFSCLF IIPLFIMLIC NAKIIFTLTR VLHQDPHELQ LNQSKNNIPR ARLKTLKMTV AFATSFVVCW TPYYVLGIWY WFDEMLNRL SDPVNHFFFL FAFLNPCFDP LIYGYFSL </p> <p> atggcccagc agtgagcct ccaaaggctc gcaggccgc atccgcagga cagctatgag A gacagcacc accagcagcat cttcacctac accaacagca actccaccag aggcccttc gaaggccga attaccacat cgtccocaga tgggtgtacc acctaccag tgtctggatg atctttgtgg tcatgtcat cgttttaca aatgggcttg tgctggcggc caccatgaag ttcaagaagc tgcgccacc gctgaactgg atcctgggtga acctggcgggt cgtgacctg gcagagaccg tcatgccag cactatcagc gttgtgaacc aggtctatgg ctactcgtg ctgggccacc ctatgtgtgt cctggagggc tacacctct cctgtgtgtg gatcacaggt ctctgtctc tggccatcat ttctctggag agatggatgg tggctctgcaa gcccttggc aatgtgagat ttgatgcaa gctggccatc cctctcctg gctctcctg gatctgggt gctgtgtgga cagcccgcc catctttggt tggagcaggt actggcccca cggcctgaag acttcacg gcccagcgt gtccagcggc agctcgtacc ccggggtgca gctctacatg attgtctca tggtcacctg ctgcaccacc ccaactcagca tcatcgtgct ctgctacctc caagtgtggc tggccatccg agcgggtggca aagagctga aagagctga atccaccag aaggcagaga aggaagtgtg gcgcatggtg gtggtgatgg tctgtgcat ctgctctgc tggggaccat acgctctctt cgcattgctt gctgctgcca acctgggcta ccccttccac </p>	Homo sapiens

138	1945	Opsin, green- sensitive	NP_000504.1	MAQQWSLQRL AGRHPQDSYE DSTQSSIFTY TNSNSTRGPF EGPNYHIAPI WYVHLTSVWM P IFVVIASVFT NGLVLAATMK FFKLRHPLNW ILVNLAVADL AETVIASTIS VVNQVYGYFV LGHPMCVLEG YTVSLCGITG LWSLAIISWE RWMVVCCKPFG NVRFDAKLAI VGIAFSWIWA AVWTAPPIFG WSRYPHGLK TSCGPDVFSG SSYPGVQSYM IVLMVTCCIT PLSIIVLCYL QVWLAIARVA KQKSESTQ KAEKEVTRMV VVMVLAFCFC WGPYAFFACE AAANPGYPFH PLMAALPAFF AKSATIYNPV IYVFMNRQFR NCILQLFGKK VDDGSELSSA SKTEVSSVSS VSPA	Homo sapiens
139	1951	Growth Hormone Secretagogue Receptor	NM_004122	atgtggaacg cgacgcccag cgaagagcgg gggttcaacc tcacactggc cgacctggac A tgggatgctt cccccggcaa cgactcgtg ggcgacgagc tgctgcagct cttccccgcg ccgctgctgg cgggcgtcac agccacctg gtggcaactc tcgtggtggg tatcgctggc aacctgctca ccatgctggt ggtgtcggc ttccgcgagc tgcgcaccac caccacactc taactgtcca gcatggcctt ctccgacttg ctcatcttcc tctgcatgcc cctggacctc gttcgcctct ggcagtaccg gccctggaac ttccggcacc tctctgcaa actcttccaa ttcgtcagtg agagctgcac ctacgccacg gtgctcacc tccacagcgt gacgtcggag cgctacttcg caatctgctt cccactccgg gccaaaggtg tggtaaccaa gggcgcggtg aagctggtea tcttcgtcat ctgggcccgt gccctctgca gcgcggggcc catcttcgtg ctagtcgggg tggagcacga gaacggcacc gaccttggg acaccaacga gtgcgcggcc accgagtttg cgtgcgctc tggactgctc acggtcatgg tgtgggtgtc cagcatcttc ttcttcttc ctgtcttctg tctcacggtc ctctacagtc tcatcggcag gaagctgtgg cggagaggcg ggcgcgatgc tgcgtgggt gccctcgctc gggaccagaa ccacaagcaa accgtgaaa tgcgtgggtg gctcagcgc gcgctcagc ttctctctgc gggctcctac ctctccctgt gccctctccc ttctctctga	Homo sapiens
140	1951	Growth Hormone Secretagogue Receptor	NP_004113.1	MWNATPSEEP GFNLTILADLD WDASPGNDSL GDELLQLFPA PLIAGVTATC VALFWVGIAG P NLITMLVWSR FRELRITNL YLSSMAFSDL LIFLCMPLDL VRIMQYRPWN FGDLLCKLFQ FVSECTYAT VLTITALSVE RYFAICFPLR AKVVTKGRV KLVIFVIWAV AFCSAGPIFV LVGVEHNGT DPWDTNECRP TEFAVRSGLL TVMVWVSSIF FELPVFCLTV LYSLIGRKLW RRRRGDAWVG ASLRDQNHKQ TVKMLGGSQR ALRLSLAGPI LSLCLLPSL	Homo sapiens
141	1954	Growth Hormone- Releasing Hormone Receptor	NM_000823	agcagccaag gcttactgag gctggtggag ggagccactg ctgggctcac catggaccgc A cggatgtggg gggcccacgt ctttgcgtg ttgagcccg taccagccgt attggggccac atgcacccag aatgacctt catcacccag ctgagagagg atgagagtgc ctgtctacaa gcagcagagg agatggccaa caccacctg gctgccccg cctggccgga ttcttctct tgttggccaa cggcaggctc tggcagtggt gtccacctc cctgacctg ctggtctgag cacttcagct cagagtcagg ggtgtgaaa cgggattgta ctatcactg ctggtctgag ccctttccac cttacctgt gccctgccct gtgcctctgg agctgctggc tgaggaggaa tcttacttct ccacagtga gattatctac accgtgggccc atagcatctc tattgtagcc ctctctgtgg ccataccat cctggttct ctacaggagg tccactgcc ccggaactac gtccacaccc agctgttcac cacttttctc ctcaaggcgg gacgtgtgtt cctgaaggat	Homo sapiens

151/448

142	1954	Growth Hormone-Releasing Hormone Receptor	NP_000814.1	MDRRMWGAHV GCVLSPLPTV LGHMHPECDF AVKRDCTITG WSEFFPPYPV ACVPVLELLA EESYFSTVK IITVGHSHS IVALFVAITI LVALRRLHCP RNVVHTQLFT TFIKAGRVF LKDAALFHS DTDHCSFSTV LCKVSVAAASH FATMTNFSL LAEAVYLNCL LASTSPSSRR AFWWILVAGW GLPVLFTGTW VSKLAFEDI ACWDLDDTSP YWIIKGPV LSVGVNFGLE LNIIRILVRK LEPAQGSLSHT QSQYWRLSKS TLFLIPLFGI HYIIFNPLPD NAGLIGIRLPL ELGLGSFQGF IVAILLYCFLN QEVRTAISRK WHGHDPELLP AWRTRAKWTT PPSRAAKVLT SMC	Homo sapiens
143	2120	Histamine H1 Receptor	NM_000861	cagggagaca tacaggattt aagaagccca tcatggagaa gaccttcaat tacagagata A aaaagtittt ctgttggaac aagttaaac tagatggcag ataacagact gaggagtga ctgcttctga ctgattaaa agggagtga gccataactg gcggctgctc ttccgccaat gagctccc aattctctt gectctaga agcaaatg tgtgaggga acaagaccac tatggccagc cccagctga tgccttggt ggtggtcctg agcactatct gcttggctac agtaggctc aacctgctg tctgtatgc cgtacggagt gagggaagc tccacactgt ggggaacctg tacatctga cctctcgtt ggggacttg atcgtgggtg cctcgtcat gctatgaac atccttacc tctcatgtc caagtgtga ctttccctg ctctctgct cttttgctt tccatggact atgtggccag cacagcgtcc attttcagt tcttcatcct gtgcatgtat cgtaccgct ctgtccagca gccctcagg taccctaaat atcgtaccaa gaccagacc tcggccacca tcttgggggc ctggttctc tcttctctg ggttattcc cattctaggc tgaatcact tcatgcagca gacctcgtg gcgcgagagg acaagtgtga gacagacttc tatgatgtca cctggttcaa ggtcatgact gccatcatca acttctacct gcccacttg ctcctgctt ggttctatgc caagatctac aagcccgctac gacaacactg ccagcaccgg gagtcatca ataggctcct ccttctctc tcagaaajta agctgaggcc agagaacccc aagggggatg ccaagaaacc agggaaggag tctccctggg aggttctgaa	Homo sapiens

aaggaaagcca aaagatgctg gtgggtggatc tgtcttgaag tcaccatccc aaacccccaa
ggagatgaaa tcccagttg tcttcagcca agaggatgat agagaagtag acaaacctcta
ctgctttcca cttgatattg tgcacatgca ggctgcgga gagggagta gcaggacta
tgtagccgtc aaccggagcc atggccagct caagacagat gagcagggcc tgaacacaca
tggggccagc gagatatcag aggatcagat gttagagctat agccaatcct tctctcgaac
ggactcagat accaccacag agacagcacc aggcaagcc aaattgagga gtgggtctaa
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ggcagccttc atcctctgct ggatccctta tttcatcttc ttcattggtca ttgccttctg
caagaactgt tgcaatgaac atttgacat gttcacctc ttgctgggct acatcaactc
cacactgaac cccctcatc accccttggt aagggaggtc ctgagggat gcaacaaaat gattcaagag
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atttcttact caaacatgtt tagagtggat agaaaaatt gcagcttgca caccatcat
ctttaacccc aaatttctt tggctattaa aaagtgttg gcaaaaggca tctcaaaag
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cacaggagggt taattttcta actctagtt gcagaggagc aaattgaggt tcagcaaggt
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tgaggccagg agttcaagac cagtctggcc aatatggaga aacctgtct ctaataaaa
cacaaaaat atctgggcat ggtggggcat gctgtagtc ccacttactt gggaggccga
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gcactccagc ctgggcaaca gagcaagact ctgtctcaa aaaaaata caatatttta
acaatgtgcc ctcttaagt tgcaagata cacatacacg gtattcccaa ggtgggtggc
agctcaaaat gatattgtt agtagcgaa cagctgacat ggaagtcccg tgcactacg
gaaggggacg ctttgaagga accaagtga ttttatctg tgagttctgt tgtgtttgtc
aaaaagtcac tgtaatcttt catagccata cctggttaagc aaaaactagt aaagacatag
gaacatgtag ttttacttgg tgtttatgtt gcaatctgggt tgattttat attttaaagc
ttgggtgctaa accacaatat gtatagcaca tggagtgccct gtacaagctg atgttttga
ttttgtgttc ctctttgcat gatctgtcaa agtgagatat ttttacctgc ctaaaaatag

Homo sapiens

144 2120 Histamine H1 NP_000852.1 Receptor
 MSLPNSSCLL EDKMEGNKT TMASPOLMPL VVVLSTICLV TVGLNLIVLY AVRSEKRLHT P
 VGNLYIVLSL VADLIVGAV MPMNLYLILM SKWSLGRPLC LFWLSMDYVA STASIFSVEI
 LCIDRYRSVQ QPLRYLKVRT KTRASATILG AWFLSFLWVI PILGNHFMQ QTSVRREDKC
 ETDYDVTFV KVTALINFY LPTLLMLWFY AKIYKAVRQH COHRELINRS LPFSEIKLR
 PENPKGDAKK PKESPWEVL KRPKPDAGG SVLKSPSQTP KEMKSPVFS QEDDREVDKL
 YCFPLDIVHM QAAAEGSSRD YVAVNRSHGQ LKTDEQGLNT HGASEISEDQ MLGDSQSFSR
 TSDDTTETA PGKGLRSGS NTGLDYIKFT WKRLRSHSRQ YVSGLHMNRE RKAQQLGFI
 MAAFILCWIP YFIFFMVIAF CNKCCNEHLH MFTIWLGYIN STLNPLIYPL CNENFKKTFK
 RILHRS

Homo sapiens

145 2121 Histamine H2 NM_022304 Receptor
 ctctgcccct ccaactgact cagagaggga gatccccagt attgactcc atcacgcaga A
 tgggagcagg caacagctat ggagagggat acagctgcgt ctccacatga cccatcctgc
 atgacaccaa agccacgcc agacagtgc tcggaattcta tgcaaacct gggaagcga
 gactacccc agccccgga ggaagctagc tcttcagggg accgtctgag gactggagtt
 tgcacatga acctggcttc gaggccttgc tttctctct tcttcattca tattcattcc
 caacaccta gaagggtgtg cttaatitat ttctagaaaa cagagccaga gtcagtcatt
 gaagccttc ccaacccctg gccaaaaaaa aaaaactggac acatttttggg
 tctgttggga gcttgagtc cagtgtgtg catagtgtc acattgggag cagagaagaa
 gcaaccaggg gccctgatca gggactgag ccgtagagtc ccaggatggc acccaatggc
 acagcctctt ccttttgcct ggaacttacc gcaatgcaaga tcaccatcac cgtggtcctt
 gcggtcctca tectcatcac cgttgcctgc aatgtggtgc tctgtctggc cgtgggcttg
 aacggccggc tccgaaacct gaccaattgt ttcactgtgt cctggctat cactgacctg
 ctctcggcc tctgtgtgtg gcccttctct gccatctacc agctgtcctg caagtggagc
 ttgggcaagg tcttctgcaa tatctacacc agcctggatg tgatgctctg cacagcctcc
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 taccctgtgc tggtaacccc agtctgggtc gccatctctc tggctttaat ttgggtcacc
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 aagggcaatc ataccacctc taagtgcmaa gtcaggttca atgaagtga cgggctgggtg
 gatgggtgg tcaacttcta cctccgcta ctgatcatgt gcatcaccta ctaccgcac
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 accatcaggg agcacaaagc cacagtga caatgcccgt tcatggggggc ctcatcatc
 tgcgtgttcc cctacttcc cgcgtttgtg taccgtgggc tgagagggga tgatgccatc
 aatgaggtgt tagaagccat cgttctgtgg tccggctatg ccaactcagc ctggaacccc
 atcctgtatg ctgcgctgaa cagagacttc cgcaccgggt accaacagct cttctgctgc

146	2121	Histamine H2 Receptor	NP_071640.1	aggctggcca accgcaact ccacaaaact tctctaggt ccaacgctc tcagctgtcc aggacccaaa gccgagaacc caggcaacag gaagagaac ccctgaagct ccaggtgtgg agtgggacag aagtcacggc cccccaggga gccacagaca ggaataagcc cttagccattg gtgcacagga tgggggcaat gggaggggat gctactgat ggaatgatta agggagctgc tgttagtg gtgctggtt atgtctagg aactcttcg gacacatttg taaacacct cttgcttaac cctcccaacg gcccccaag gtagaaacta gctccctttt aaaaaggaca cattaaaatt ctcagaggac ttggcaagg cgcacagct ggggcat	Homo sapiens
147	2783	Opioid Receptor, kappa 1 (OPR1)	NM_000912	MAPNGTASSE CLDSTACKIT ITVLAVLIL ITVAGNVVVC LAVGLNRRRL NLNCFIVSL P AITDLLGLL VLPFSAIYQL SKWSEFGKF CNIYTSLDVM LCTASILNF MISLDRYCAV MDPLRYPVLV TPVRVAISLV LIWVISITLS FLSIHLGWS RNETSNGNHT TSKCKVQVNE VYGLVDGLVT FYLPLLIMCI TYRIFKVAR DQAKRINHIS SWKAATIREH KATVTIAAVM GAFIICWFPY FTAIFYRGLR GDDAINEVLE AIVLWLGYN SALNPILYAA LNRDFTGYQ QLFCCRLANR NSHKTSLRSN ASQLSRTQSR EPRQOEKPL KIQWMSGTEV TAPQGATDR tgcagcactc accatggaat ccccgattca gatcttcgc ggggagcctg gccctacctg A cgccccgagc gctgctgc ccccaacag cagcgctgg ttccccggt gggccgagcc cgacagcaac ggcagcgccg gctcgaggga cgcgcagctg gagcccgccg acatctcccc ggccatcccg gtcacatca cggcggctca ctccgtagt ttcgtcgtgg gcttggtggg caactcgtg gtcagtgttc tgatcatccg atacacaaag atgaagacag caaccaacat ttacataatt aactggctt tggcagatgc tttagttact acaaccatgc cctttcagag tacggtctac ttgatgaatt cctggccttt tgggagatg ctgtgcaaga tagtaatttc cattgattac tacaacatgt tcaccagcat ctccacctg accatgata gcgtggaccg ctacattgcc gtgtgccacc ccgtgaaggc ttgggacttc cgcacacct tgaaggcaaa gatcatcaat atctgcatct ggtgctgtc gtcacttgtt ggcactctct caatagtcct tggaggcacc aaagtcaggg aagacgtcga tgtcattgag tgctccttc agttcccaga tgatgactac tctggtggg acctctcat gaagatctgc gctctcatct ttgcttctgt gatccctgtc ctcatcatca tegtctgcta cacctgatg atcctgctc tcaagagcgt cgggctcctt tctggctccc gagagaaaga tcgcaacctg cgtaggatca ccagactggt cctgggtggtg gtggcggttt tegtctctg ctggactccc attcacatat tcatcctggt ggaggctctg gggagcacct ccacagcac agctgctctc tccagctatt acttctgcat cgcttaggc tataccaaca tagcctgaa tccattctc tacgcttctc ttgatgaaaa cttcaagcgg tgttccggg acttctgctt tccactgaag atgaggatgg agcggcagag cactagcaga gtcgaaata cagttcagga tctgcttac ctgagggaca tcatgggat gaataaacca gtagactag tegtggagat gctctctac ag NP_000903.1 MESPIQIFRG EPPTCAPSA CLPNSSAWF PGWAEPSNG SAGSEDAQLE PAHISPAIPV P IITAVYSWF VVGLVGNLSV MFVIRYTKM KTATNIYFN LALADALVTT TMFFQSTVYL MNSWPFGBVL CKIVISIDY NMFTSIFTLT MMSVDRIYAV CHPVKALDFR TPLKAKIINI CIWLLSSSVG ISAILVGGTK VREDVDVIEC SLQFPDDDDYS WDLFMKICV FIFAFVIPVL IIIVCYTLM I LRLKSVRLLS GSREKDRNLR RITRLVLVV AVEVVCWTPI HIFILVEALG STSHSTAALS SYFICIALGY TNSSLNPILY AFLDENFKRC FRDFCFPLKM RMERQSTSRV RNTVQDPAYL RDIDGMNKPV NM_000233 ggccgccccat gaagcagcgg ttctcgccgc tgcagctgct gaagctgctg ctgctgctgc A	Homo sapiens
148	2783	Opioid Receptor, kappa 1 (OPR1)	NP_000903.1	aggctggcca accgcaact ccacaaaact tctctaggt ccaacgctc tcagctgtcc aggacccaaa gccgagaacc caggcaacag gaagagaac ccctgaagct ccaggtgtgg agtgggacag aagtcacggc cccccaggga gccacagaca ggaataagcc cttagccattg gtgcacagga tgggggcaat gggaggggat gctactgat ggaatgatta agggagctgc tgttagtg gtgctggtt atgtctagg aactcttcg gacacatttg taaacacct cttgcttaac cctcccaacg gcccccaag gtagaaacta gctccctttt aaaaaggaca cattaaaatt ctcagaggac ttggcaagg cgcacagct ggggcat	Homo sapiens
149	2964	Luteinizing	NM_000233	aggctggcca accgcaact ccacaaaact tctctaggt ccaacgctc tcagctgtcc aggacccaaa gccgagaacc caggcaacag gaagagaac ccctgaagct ccaggtgtgg agtgggacag aagtcacggc cccccaggga gccacagaca ggaataagcc cttagccattg gtgcacagga tgggggcaat gggaggggat gctactgat ggaatgatta agggagctgc tgttagtg gtgctggtt atgtctagg aactcttcg gacacatttg taaacacct cttgcttaac cctcccaacg gcccccaag gtagaaacta gctccctttt aaaaaggaca cattaaaatt ctcagaggac ttggcaagg cgcacagct ggggcat	Homo sapiens

Hormone/Chor
iogonadotrop
in Receptor

sapiens

agccgcgcgt gccacgagcg ctgcgcgagc cgctctgccc tgagccctgc aactgcgtgc
ccgacggcgc cctgcgctgc cccggcccca cggccggtct cactcgacta tcacttgccct
acctccctgt caaagtgatc ccatctcaag ctttcagagg acttaatgag gtacataaaaa
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tttgcataat ctttttttca ttttcgtaat ttgtattgca tctctataaa atattagttc
ataacagatc agaaatttaa aataaggggc tttttcttca ggtagtttga aaaaacacat

150	2964	Luteinizing Hormone/Chor iogonadotrop in Receptor	NP_000224.1	ctagagatgc actgttcaat tcggtacgca ctaccacat gtgctaaat taaaattaaa taaaatgaga aatgtagttt ctacagttga ctacgtttca agttctcaat ggctacgtca agttctcaat ggctacgtgt gactagtgt taccatactg gacagcacag acacagaata ttttcatcac cacagaaagt tctatctgtt ctattataga gacttttat tatgccctat ctggattcta ctattattata atttaaggta aacatctgaa agcacatttc agcctatttg cttagtgaaa cattaaagctg tagactgtaa actcctcgtg agtaggaacc ctgtctcagt gcattttgtt ttcttgcttc ctacctcaag atcttgcaa tggtagacata caaatgtgct gagtagaat tactctgaag ttatgaaca tataatgaaa acaatttttc cggcc VKIPSAFR GLNEVIKIEI LKLLLLQPP LPPALREALC PEPNCVDPG ALRCPGPTAG LTRLSLAYLP P NLPGLKLSI CNTGIRKFPD VTKVFSSEN FILEICDNLH ITTIPGNAFQ GMNNESTLK LYNGFEVQ SHAFNGTTLT SLELKENVHL EKHNGAFRG ATGPKTLDIS STKLOALPSY GLESIQRLIA TSSYSCLKLP SRETFVNLE ATLTPSHCC AFRLPTKEQ NFSHSISENF SKOCESTVRK VSNKTLSSM LAPELSGWD YEGFCLPKT PRCAPEPDAF NPCEDIMGYD FLRVLIWLN ILAIMGNMTV LFVLLTSRYK LTPRFELMCN LSFADFCMGL YLLLIASVDS QTKGQYINHA IDWQTGSGCS TAGFFTFEAS ELSVYTLTVI TLERWHTITY AIHLDQKLRL RHAILIMLGG WLFSSLIAM LPLVGSNYMK VSICFPMDVE TTLSQVYILT ILILNVVAF IICACYIKIY FAVRNPELMA TNKDTKIARK MAILIFTDT CMAPISFFAI SAAFVPLIT VTNSKVLVL FYEINSCANP FLYAIFTKF QRDFFLLLSK FGCKRRRAEL YRRKDFSAYT SNCKNGFTGS NKPSQSTLKL STLHCQGTAL LDKTRYTEC	Homo sapiens
151	2976	Lysophosphat idic Acid Receptor Edg2	NM_001401	acggcgcgct gggtcacac tgctcccgcc cggacgggt tbtgtggttg gggcgcgctg A gcagtgcca gtgagagtgt ggtgcgcgcc ggtgggcgcc ggcgcgggtg ggtggcgctg cgttcttgcc agccggcctg caggagcgca ggctccctcg gcctcccgca cccagcgccg gaccgagccc ctggaggga gttgccgag cggcccgcc cggcgggccct cctgtcccg gccaggtaca cagcttctcc tagcatgact tacaaccaca gagctgtcat ggtgcccac ctcccgtagt tctggggcgct gttcacacc cagttcacag ccatgaatga accacagtgc tctacttcca tccctgtaat ttccacagccc cagttcacag ccatgaatga accacagtgc ttctacaacg agtcattgc cttcttttat aaccgaagt gaaagcatct tgccacagaa tggaacacag tcagcaagct ggtgatgga ctgggaatca ctgtttgtat cttcatcatg ttggccaacc tattgttcat ggtggcaatc tatgtcaacc gcgccttcca ttttccctat tattacctaa tggctaatct ggtgctgca gacttcttg ctgggttggc ctacttctat ctcatgttca acacaggacc caatactcg agactgactg tttagcacatg gctcctgcgt cagggcctca ttgacaccag cctgacggca tctgtggcca acttactgga tattgcaatc gagaggcaca ttacggtttt ccgcatgcag ctccacacac ggatgagcaa cggcggggta gtgggtgtca ttgtgttcat ctggactatg gccatcgta tgggtgtctat accagtggtg ggcgggaact gbatctgtga tattgaaaat tgttccaaca tggcaccctt ctacagtgc tcttacttag tcttctgggc cattttcaac ttgtgacct ttgtggtaat ggtgggttctc tatgtcaca tctttggcta tgttgcgag aggactatga gaatgtctcg gaatagtctt ggacccggc ggaatcggga taccatgatg agcttcttga agactgtggt cattgtgctt ggggccttta tcatctgtg gactctgga ttgttcttga tcttctaga cgtgtgctgt ccacagtgcg acgtgctggc ctatgagaaa ttcttctctt tcttctctga attcaactct	Homo sapiens

152	2976	Lysophosphat idic Acid Receptor Edg2	NP_001392.1	<p>gcaatgaacc coactcatta ctctaccgc gacaaagaaa tgagcgccac ctttaggcag atcctctgct gccagcgag tgagaaacccc accggcccca cagaaggctc agaccgctcg gtttcctccc tcaaccacac catcttgctt ggagttcaca gcaatgacca ctctgtggtt tagaacggaa actgagatga ggaaccagcc gtccctctct ggagataaaa cagcctcccc ctaccaatt gccagggcaa ggtggggtgt gagagaggag aaaagtcaac tcatgtactt aaacactaac caatgacagt attgttccct ggacccccca agacttgata tataattgaaa attagcttat gtgacaaccc tcatcttgat ccccatccct tctgaaagta ggaagtggga gtctttgcaa tggaaattcaa gaacagactc tggagtgtcc atttagacta cactaactag acttttaaaa gattttgtgt ggtttgtgtc aagtcagaat aaattctggc tagttgaatc cacaacttca ttatatata ggttccctt ttttattttt aaaggatacg ttccacttaa taaacacgtt tatgcctatc agcatgtttg tgatggatga gactatggac tgcttttaaa ctaccataat tccatttttt cctttacata ggaaactgtt aagttggaaat tatcttttgt ttagaaagca tgcattgtaat gtatgtatgc agtatgcctt acttaaaaag attaaaagga tactaatgtt aaatcttcta ggaatataga cctagacttc aaagccagta ttgttttagg tcatgaagca acaatgctc taatcacaaat attaaactgt taattaaaat gttgtaacaa gtataaaaca gggaaatgtaa gtttattacc aaagtatat gtattccaaa aaagtcatag aagatgaagc actataatat tgttcccata tatttaaaat acccaagtac attctaatta ccagtatatc agaggaaaat tttcgtagtc ttgttaaaat aatatactca tcatagaaaa cttgaaaaat gcagaaatgt ataaaaaagc aaaaatgatt actgataata tcacaaccca gaagtaacca cctttaaaa gcaaccccca tgtatgccta tatgtgtatt gtatactttt tttacataat tggagtcata ctgtaaacag ttttataagt agatcttttt cattgcaaaa ttggcacatt ttcttatggc attaaaaat ttacaaaaac ataattttaa tggctatat atattccatt taatggatgc aactcagttt atttaaccat tcccatgttg ttaactattt aggtgttttc taattttcat tattataaag tgcagaaaat ttggtgtg</p>	Homo sapiens
153	3038	G Protein- Coupled Receptor MRG	S78653	<p>ttttgtattt gttgcaccct aagtcgttct atttcttct cctcagctga catttgagc A atagcagtcg atgatgccc cagacagact gcttgagact cagcccccgt gagaaacgca gatttcctta ttttccaggt caagtcctgc cagccataga aaggacttct ttggtgccc ctgctgtgaa atgctgctt tggaaatctc agtgcctcct tgcacctgtc tgagccagg gaaatgccat actgtggcac tctgtcatcc tgcattgcta ccaaggatg cccaggactg gtttgaaaga gatgagacat gccagggtgc gtggtcacg ctgttaatcc agcactttgg gaggtcaagg cagtggatca caaggtcaga gttgagacca gccaggccaa tatggtgaaa acccatctc tactaaaaat acaaaaaat agcgggcaaa tgggtgtggtg tgcctgtagt tccagctagt caggaggccg aggcaggaga atgcttgaa cctggaaggt ggaggttcca gtgagctgag atcgcgccac tgcactccag cctgggtgac agagtgagac tccaaactcaa</p>	Homo sapiens

154	3038	G Protein- Coupled Receptor MRG	AAB21255.1	<p> aaaaaaaaaa aaaaaagaga tgagacacta gtgtctcatg agtagaacct ggaccagaca caaatctcca ttcccaatgt ttagtgcttc attagtcccc aacaacaga tattgggtct atgtgggtag gcctggggca tcctgtacaa caggagatgt gttaggggag ggagaaacaga tcacaaaattc atggagagct atttgacag caacaaatgg tttctattc cagcctagga taatgttcag ctgttctctaa aaagcacacc caacaaatgg tttctattc cagcctagga aaatgtagag gcaagggtgc tgaggccaga ggacaccact agatggacca ctgctcctga ctgtgatgt gtggccact caggtcccag caccctatgg tctgggggaa aattgctgg ttccagccaga gggctggatg jacagtgttt gctgagtca acatattctt ctcatgtagc ctttgtctcc acagtgtga ccaggaggca cagaacccaa acctggtatc tcagctctgt ggctctttc ttcaaaatga gacgaatga accatacata tgcagatgag catggcagtg ggacagcagg cctgtccctt gaatatcatt gcccctaaag ctgtgctggt ctcctctgt ggggtcttat tgaatggcac tgtcttctgg ctgctttgct gtggggccac gaatccctac atggtatata tctctccact ggtcgtgct gactgatct atcttggctg ctggcagtg ggttctttac aggtgactct gtaacttat catggagtgc tgtttttat ccttgattc ctggccatat tgtctccctt cctctttgag gtgtgtctct gtctctggt ggcctcagc acagagcgt gtgtgtgtgt cctcttccc atctgttaca gatgccacc cccaaaatac acatctaatt ttgtctgcac cctcatctgg ggcctgctt ttgcatcaa catagtaaaa tcacttttc taacttactg gaaacatga aaggcatgt tcatattctt aaagtcttct gggctcttcc atgctatctt tcaacttgtg atgtgtgtg cagatctgac tctactcatt agattcctgt gctgctccca gcagcaaaag gccaccagg tctatgctg ggtgcagatc tgggccccca tgttctact ctgggcccta cccctgagcg tggcaccct cataacagat ttcaaaaatgt ttgtcaccac cctctattta atttcttgt tctcattat aaacagcagc gccaaccta tcaatttatt ctttgtgggg agcctcagaa agaaaaggct gaaggaatct ctccagatga ttctccaaag ggcgttagca gataagccag aggtggggag gaacaaaaag gcagctggca tcgacccaat ggagcaacca cactctactc agcatgtgga gaacctctt cccagggagc acagggtcga tgtggaaaca taatttccc acatgagct ggggaattgt acacatagta accagcctg ttctgcatca taaggctgct gcatcaaatc aatgctttat tctaataaag ttcagcttcc atggacttcc aaaaacaccc ctgtgtgttt gtggttggaa gagacattaa ctctctctc aggcagtaag cccagtttga atgtgtcca gttccaaaga tgagggggaat gggaccagat gagacttcc tggtaacctg ggaatccaaa taaagaccat acaaaagcat gaattc </p>	Homo sapiens
155	3057	Melanocortin 3 Receptor (MC3R)	NM_019888	<p> HMWGIKWFQ QRAQWTFVFE SQTSLSCSLC LHSQDQEAQN PNLVSQLCGV FLQNETNETI P HMQMSMAVGQ QALPLNIIAP KAVLVSLCGV LLNGTVFWLL CCGATNPYMV YILHLVAADV IYLCCSAVGF LQVTLITYHG VVFFIPDFLA ILSPFSFEVC LCLIVAISTE RCVCLFPIW YRCHRPKYTS NVVCTLIWGL PFCINIVKSL FLTYMKHVKA CVIFLKLSGL FHAILSLVMC VSSITLLIRE LCCSQQKAT RVYAVVQISA PMELLNALPL SVAPLITDFK MFTVTSYLIS LFLINSSAN PIYFFVGSIL RKKRLKESLR VILQRALADK PEVGRNKKAA GIDPMEQPHS TQHVENLLPR EHRVDVET </p>	Homo sapiens

156	3057	Melanocortin NP_063941.1 3 Receptor (MC3R)	<p>cctttcttca gcaaccagag cagcagcgcc ttctgtgagc aggtcttcat caagcccgag atthtctctgt ctctgggcat cgtcagtcgt ctggaaaaa tctgtgttat cctggccgtg gtcaggaacg gcaacctgca ctccccgat tacttcttct tctgcagcct ggcgtgtggc gacatgctgg taagtgtgtc caatgccctg gagaccatca tgatcgccat cgtccacagc gactacctga ccttcgagga ccagtttctc cagcacatgg acaacatctt cgaactccatg atctgcatct ccttggtggc ctccatctgc aacctctctg ccacgcgctg cgacagggtac gtcaccatct tttagcgct cccgtaccac agcatcatga ccgtgaggaa ggccctcacc ttgatcgtgg ccatctgggt ctgctgcggc gtctgtggcg tgggtgtcat cgtctactcg gagagcaaaa tggcattgt gtgcctcatc accatgttct tcgccatgat gctcctcatg ggcaccctct acgtgcacat gttcctcttt gcgcggctgc acgtcaagcg catagcagca ctgccacctg ccgacggggt ggccccacag caacactcat gcatgaagg ggcagtcacc atcaccattc tcttggtgct gtctatcttc tgcgtggccc ccttcttctt ccacctggtc ctcatcatca cctggccccc caacccctac tgcattctgt acactgccc cttcaacacc tacctggtcc tcatcatgtg caactccgtc atcgacccc tcatctacgc ttccgggagc ctggaaatgc gcaacacctt tagggagatt ctctgtggct gcaacggcat gaacttggga tag</p>	Homo sapiens
157	3058	Melanocortin NP_005912 4 Receptor (MC4R)	<p>MSIQKKYLEG DFVFPVSSSS FLRTLLPQL GSALLTAMNA SCCLPSVQPT LPNGSEHLQA P PFFSNQSSSA FCEQVFIKPE IFLSLGVSL LENILVILAV VRNGNLHSPM YFFLCSLAVA DMLVSVSNAL EFTIMAIKPS DYLTFEDQFI QHMDNIFDSM ICISLVASIC NLLAIADVRY VTIFYALRYH SIMTVRKALT LIVAIWVCCG VCGWVFIVYS ESKMIVIVCLI TMFFAMMLLM GTLVHMFLF ARLHVKRIAA LPADGVAPQ QHSCMKGAVT ITILLGVFIF CWAPFFLHLV LIITCPTNPY CICYTAHENT YLVLMCNVS IDPLIYAFRS LEIRNTFREI LCGNGMNIG atggtgaact ccaaccacg tgggatgcac actctctgc acccttgaa ccgcagcagt A tacagactgc acagcaatgc cagtgcagtc cttggaaaag gctactctga tggagggtgc tacgagcaac tttttgtctc tctgaggtg tttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt gcaaatagcc aagaacaaga atctgcattc acccatgtac tttttcatct gcagcttggc tgtggtgat atgctggtga gcgtttcaa tggatcagaa accattatca tcacctatt aacagtaca gatacggatg cacagagttt cacagtgaat attgataatg tcatgactc ggtgatctgt agtcccttgc tgcateccat ttgcagcctg ctttcaattg cagtggacag gtactttact atcttctatg ctctccagta ccataacatt atgacagta agcgggttgg gatcatcata agtgttatct ggcagccttg cacgggttca ggcattttgt tcatcattta ctcagatagt agtctgttca tcatctgcct catcaccatg ttcttcacca tgtgggtctc catggcttct cttatgttcc acatgttctt cctggccagg cttcacatta agaggattgc tgtctctccc ggcactggtg ccatacgcca aggtgccaat atgaaggag cgattacctt gacctcctg attggcgtct ttgttgtctg cttggcccca ttcttctctc acttaatat ttacatctct tgcctcaga atccatattg ttgtgtcttc atgtctcact ttaacttga tctcatatg atcatgtgta attcaatcat cgtacctctg atthtgcac tccggagtca agaactgag aaaaacttca aagagatcat ctgttgctat cccttgaggag gcccttgta cttgtctagc agatattaa MVNSTHRGMH TSLHLNRRSS YRLHNSAES LGKGYSDDGC YEQLFVSPEV FVTLGVISLL P ENILVIVAlA KKNLHSPMY FFICSLAVAD MLVSVSNGSE TIIITLLNST DTDQSFVN</p>	Homo sapiens
158	3058	Melanocortin NP_005903.1 4 Receptor		Homo sapiens

159	3059	(MC4R)	Melanocortin NM_005913 5 Receptor (MC5R)	IDNVIDSVIC SSLLASICSLS LSIADVRYFT IFYALQYHNI MTVKRVGIII SCIIWAACVTS GILFIIYSDS SAVIICLITM FFMALMAS LYVHMFIMAR LHIKRIAVLP GTGAIRQGAN MKGAITLITL IGVFWVCWAP FFLHLIFYIS CPQNPYCVCF MSHENLYLIL IMCNSIIDPL IYALRSQELR KTFKEIICCY PLGGCLDLS RY	Homo sapiens
				atgaattcct catttcacct gcatttcttg gatctcaacc tgaatgccac agaggccaac A ctttcaggac caaatgtcaa aaacaagtct tcaccatgttg aagacatggg cattgctgtg gagggttttc tcaactctgg tgctcatcgc ctcttgagga acatcttggc cataggggcc atagtgaaga acaaaaacct gcactcccc atgtacttct tctgtgtcag cctggcagtg gaggacatgc tggtagcat gtccagtgc tggagagaca tcaccatcta cctactcaac aacaagcacc tagtgatagc agacgccttt gtgcgccaca ttgacaatgt gtttgaactcc atgatctgca ttccctggtt ggcattccatg tgcagcttac tggccattgc agtggatagg tacgtcacca tcttctacgc cctgcgtac caccacatca tgacggcgag gcgtcaggg gccatcatcg cggcatctg ggtttctgc acgggctgag gcatgtctt catcctgtac tcagaatcca cctacgtcat cctgtgcctc atctccatgt tcttcgctat gctgttcttc ctggtgtctc tgtacatata catgttcttc ctggcgcgga ctcacgtcaa gcggatcgcg gctctgcccc gggccagctc tgcgcggcag aggaaccagca tgcaggcgcg ggtcacctgc accatgctgc tggcggtgtt taccgtgtgc tgggccccgt tcttcttca tctcacttta atgctttctt gccctcagaa cctctactgc tctcgtctca tgtctcactt caatatgtac ctcactactca tcatgtgtaa tctcgtgatg gacctctca tatatgcctt ccgcagccaa gagatgcgga agacctttaa ggagattatt tgcgtccgtg gtttcaggat cgcctgcagc tttccagaa gggattaa	
160	3059	Melanocortin NP_005904.1 5 Receptor (MC5R)	Homo sapiens	MNSSFHLHFL DNLNATEGN LSGENVKNS SPCEDMGIAY EVFTLGVIS LIENILVIGA P IVKNKLNHSP MYFVCSLAV ADMLVSMSSA WETITIYLLN NKHLVIADAF VRHIDNVFDS MICISVWASM CSLLAIAVDR YVTIFYALRY HHIMTARRSG AIIAGIWAFC TGGGIVFIFY SESTYVILCL ISMFFAMLEL LVSLYIHMFL LARTHVKRIA ALPGASSARQ RTSMQGAVTV TMLLGVTVC WAPFELHLLT MLSCPQNLIC SRFMSHFMY LILMCNSVM DPLIYAFRSQ EMRKTKEII CCRGFRIACS FPRRD	
				ggagaggggtg tgagggcaga tctgggggtg cccagatgga aggaggcagg catgggggac A acccaaggcc cctggcagc accatgaact aagcaggaca cctggagggg aagaactgtg gggaacctga ggcctccaa gactccttc tgcctcttg acaggactat ggctgtgcag ggatcccaga gaagacttct gggctccctc aactccacc ccacagccat ccccgagctg gggtggctg ccaaccagac aggagcccg tgcctggagg tgcctatctc tgacgggctc ttctcagcc tggggctggt gagcttggtg gagaacgcgc tgggtggtgg caccatcgcc aagaaccgga acctgcactc accatgtac tgcctcatct cctgcctggc ctgtcggac ctgctggtga cggggagcaa cgtgctggag acggccgtca tctcctctgt ggagggcggg gcactggtg cccgggctgc ggtgctgcag cagctggaca atgtcatga cgtgatcacc tgcagctcca tgcgtccag cctctgcttc ctggggcgcca tgcctgtgga ccgtacatc tccatcttct acgcactgcg ctaccacagc atcgtgaccc tgcgcggggc gcggcaagcc gttgcggcca tctgggtggc cagtgtcgtc ttcacacgc tcttcatcgc ctactacgac cacgtggccg tctcgtgtg cctcgtggtc tctcctgtg ctatgtgtg gctcatggcc gtgctgtacg tccatctgt ggcggggggc tgcagagcag ccccgggcat cgcgggctc	
161	3061	Melanocortin NM_002386 1 Receptor (MC1R)	Homo sapiens		

162	3061	Melanocortin 1 Receptor (MC1R)	NP_002377.2	MAVQSGQRRL ATIAKRNRLH DVIITCSSMLS AYYDHVAVLL VTLLILLGIF HSQELRRTLK EVLTCSSW	IPQLGLAANQ ALSDLLVSGS DRYISIFYAL VLMVLYVHM ITLIVLCPEH PTCGCIFKNF NLFLALIICN AIIDPLIYAF	TGARCLEVSI NVLETAVILL RYHSIVTLPR LARACQHAQG IARLHKRQRP VHQGFGLKGA	SDGLFLSLGL LEAGALVARA ARQAVAAIWW ASVVFSTLFI VHQGFGLKGA	VSLVENALVV AVLQQLDNVI ASVVFSTLFI VHQGFGLKGA	Homo sapiens
163	3079	Melatonin Receptor type 1a	NM_005958	ccggcgagc gggacgcgaa gtgctccgcg atcttcacca aacaagaagc gtgggtggcca ctgggctatc atattcaaca tacgacaaac acgctggcgg tactcgtgca cacttcctcg ctccagggtca aggaattttg aacttcattg tggctgtttg tacgggctac acagccaggg ccgtctccac acgttccggg gcagagtggg cgtgctgtca gagagttaca tgcattcagg ttgcatctct taaatgagca agtgcctctt	cttaacaagt cagggaacct gggacgcgac tcgtgggtga tcaggaaacg tttatccgta tgcaactgcc tcaccgggat tgtacagcag ccgtccctgc cttcgcgcc tcacctgat gacagagggt tcacctgtt gactgtgct tgatgaccac tgagatggac ggaggaacct gcattataaa tgtaactga ggaaggagt cttcactttt aatggaacaa attacagagg	ggtcgggcgg gcagggcaac gcggccctcg catcctgggc aggaacatc ccggttggtg agtcagtggg cgccatcaac caagaactcc caacctccgt gtcgtcagc catagtcac gaaacctgac tgtgttttt ggcctctgac ctacatggcg tttcagggaag ggacagctct caataatgta acgtcgcgca tcgaactttt ccctccaat ggaatgcggt tgcaaaacttt tgaagacttc ttttttttct gaaaggctga	gcggcagagg tgccccacgc ccgccctagc tcacctctgg gcttagctga ctgatgtcga ttcctgatgg cgctactgct ctctgctacc gcagggactc tcaggtacga ccatgcctgc tctgttacc cgcaaaccca gtcctctttg cccgccagca tatitcaaca gaatacagga aacgacgtgg gtaaagggtg aggtcgcgca tcgaactttt ctactagtc tcagggtctg tattgtaaat tagcagaaaa gtataatgaa acataaatca	cgggcgatgg tgccccacgc ccgccctagc tcacctctgg gcttagctga tatttaacaa cggttggaac cagtcgctcc cagtcctcaag tgctcctcat tccagtagca ccatgcctgc tgagaaatag aacfgaaacc ccatgtgctg tgggtgctag gatccccagag tgccattata ctcgtctctgt ccgatagggt actccgttta gtctgggaaa cttgacagat tgccatagtt agagaagtac ggtgagagta gagtgccaca aaagggggtaa atgaaagaga caacaatga aagtgggggtg catcaacaat	Homo sapiens

164	3079	Melatonin Receptor type 1a	NP_005949.1	<p> cacaaccaca accaacacca caaacctttc agctggcaga gttagcattg ggtagctata ctcatgttca taaatgtttg ccgtctata ttacaagtgt tgcattgcaac cagataaaga actaaatcat aggcgggca cagtcgtca cactgtaat ctacgacctt tggagggtg aggtgggag atcaactgag ttacagagtt tgagaccacc ctggggcaac atgatgaaat cccatctcta aaaaaatata aaaaattatc tgggacattg gcacagcctt gtaatcccaag ctactcagga gactgagtta ggagaatccc ttgagcccca gaggcagagg ttgtggtgag ccgagatcgc gccagtacat tccaacttag gctacagaat gagactctgc ccaaaaaaa aaaaaaa </p>	Homo sapiens
165	3080	Melatonin Receptor type 1b	NM_005959	<p> acgcgagctg ggcagggaag agagcgccc gctcagtact gcgcgcgcc tgcggctgtc A cggggccgcg cgggtggccaa agcacagcgc gggagagtct gcgatgtcag agaacggctc cttcgcccaac tgcgtcgagg cggggcggtg ggcagtgccg ccgggctgtg cggggctgtg cagcgcgcg ccctccagga ccctccgacc ccctcggtg gctccagcgc tgcgcgcgt gctcagctc accacgcgc tggacgtcgt gggcaacctc ctggtgatcc tctccgtgct caggaaccgc aagctccgga acgcaggtaa ttgtgtcttg gtgagctctg cattggctga cctgggtggt gccctctacc cctaccgct aatccctgtg gccatctct atgaagcgtg ggccctgggg gaggagcact gcaaggccag cgccttgtg atggccctga gcgtcatcgg ctctgtcttc aatatcactg ccacgcacct taaccgctac tgctacatct gccacagcat ggcctaccac cgaatctacc ggcgctgga caccctctg cacatctgc tcatctggt ctcacccgtg gtggccttgc tgcccaactt ctttgtggg tccctggagt acgacccacg catctattcc tgcaacttca tccagaccgc cagcaccacg tacacggcgg cagtgggtgt catccacttc ctctcccta tcgctgtcgt gtcctctgc tacctgcga tctgggtgct ggtgcttcag gccgcagga aagccaaagc agagagcagg ctgtgctga agccagcga cttgcgagc tttctaacca tgttgtgtgt gtttgtgatc ttggccatct gctgggtcc acttaactgc atcggcctcg ctgtggccat caaccccaa gaaatggctc ccagatccc tgaggggcta ttgtcacta gctacttact ggcttattc aacagctgc tgaatgcat tgtctatggg ctctgaacc aaaaacttcc cagggaatac aagaggatcc tcttggccct ttggaacca cggcactgca ttcaagatgc ttccaaaggc agccacggg aggggtctga gagccagct ccaccatca ttgtgtgca gcaccaggga gatgctctc agctggatc tgaggcacac cagcagcatg acaactcat gaaatgttgg gagagagtct gctgcaaggg tgagaccagg cagcctgctg ggcacactg tctgtttggc atcacagccc caaggctggg ggaacttcat gctgggacaa gcagcccatc aacgccatgg gtccaggctg atccaggaga tgctcacagg ccacaggacc tggaaaacac tcttgggtgt gtcttgggga ttbggtgcac acaagacca ggaaggaca gaatgaggaa agccctgggg cagaagagcc caactcttc tcatagctga cctcatctc cctgccttg ccttctctc ctttctccc cttccccca gcatggcagg atctctctct gttagcaagg gaggtcagta ggactgggaa </p>	Homo sapiens

166	3080	Melatonin Receptor type 1b	NP_005950.1	<p>ttggttaacta caaggccctc aggtggggca ggtgcagagg gc</p> <p>MSENGSFANC CEAGGWAVERP GWSGAGSARP SRTPRPPWA PALSAVLIVT TAVDVVGNLL P</p> <p>VILSVLRNRK LRNAGNLELV SLALADLVVA FYPYPLILVA IFYDGMALGE EHCKASAFVM</p> <p>GLSVIGSVEN ITAIAINRYC YICHSMAYHR IYRRWHTPLH ICLIWLLTV ALLPNFFVGS</p> <p>LEYDPRIYSC TFIQTASTQY TAAVVIHFL LPIAVVIFLQ LRIWLVLOA RRAKAPESRL</p> <p>CLKPSDLRSE LTMFVVFVIF AICWAPLNLCI GLAVAINPOE MAPQIPEGLF VTSYLLAYFN</p> <p>SCLNAIVYGL LNQNFREYK RILLALWNP R HCIQDASKGS HAEGLOSPAP PIIGVQHQAQ</p> <p>AL</p>	Homo sapiens
167	3081	Melatonin- Related Receptor	NM_004224	<p>tggttgctgt ctggacctgg ctgctgatcc tgagccctgct gggagatctt aacgatcccc A</p> <p>aggagcaaca tggggccccc cctagcgggt cccacccccc atggctgtat tggctgtaag</p> <p>ctacccccagc cagaataccc accggctcta atcatcttta tggctgcgc gatggttatc</p> <p>accatcggtg tagacctaat cggcaactcc atggtcattt tggctgtgac gaagaacaag</p> <p>aagctccgga attctggcaa catcttcgtg gtcagtctct ctgtggccga tatgctgggtg</p> <p>gccatctacc catacccttt gatgctgcat gccatgtcca ttgggggctg ggatctgagc</p> <p>cagttacagt gccagatgggt cgggttcata acagggtga gtgtggtcgg ctccatcttc</p> <p>aacatcgtag caatcgctat caaccgttac tgctacatct gccacagcct ccagtaacga</p> <p>cggatcttca gtgtgcgcaa tacctgcatc tacctgggtca tcacctggat catgaccgtc</p> <p>ctggctgtcc tgcccacat gtacattggc accatcggt acgatccctg cactacacc</p> <p>tgcattctca actatctgaa caacctgtc ttcaactgta ccatcgctg catccactc</p> <p>gtctccctc tctcatcgt gggtttctg tactgtgagga tctggacca agtgcctggc</p> <p>gcccgtgacc ctgcaggga gaatcctgac aaccaactg ctgaggttgc caatttcta</p> <p>accatggttg tgatcttct cctctttgca gtgtgctggt gccctatcaa cgtgctcact</p> <p>gtcttggttg ctgtcagtc gaagagatg gcaggcaaga tccccaaactg gctttatctt</p> <p>gcagcctact tcatagccta cttcaacagc tgctcacaag ctgtgatcta cgggctcctc</p> <p>aatgagaatt tcgaaagaga atactggacc atcttccatg ctatggcgca cctatcata</p> <p>ttcttccctg gcctcatcag tgatatctgt gagatgcagg aggcccggtac cctggccgc</p> <p>gccctgccc atgctcgcga ccaagctcgt gaacaagacc gtgcccctgc ctgtcctgct</p> <p>gtggaggaaa ccccgatgaa tgtccggaat gttccattac ctggtgatgc tgcagctggc</p> <p>caccccgacc gtgcctctgg ccacctaaag ccccatcca gatcctctc tgcctatgc</p> <p>aaatctgcct ctaccacca caagtctgtc tttagccact ccaaggctgc ctctgggtcac</p> <p>ctcaagcctg tctctggcca ctccaagcct gctctggtc acccaagtc tgcactgtc</p> <p>tacctaaagc ctgctctgt ccatctcaag ggtgactctg tccatttcaa ggtgactct</p> <p>gtccatttca agcctgactc tgttcatctt aagcctgctt ccagcaaccc caagcccatc</p> <p>actggccacc atgtctctgc tggcagccac tccaagtctg ccttcagtgc tgcaccagc</p> <p>cacctaaac ccatcaagcc agttaccagc catgctgagc ccaccactgc tgactatccc</p> <p>aagcctgcca ctaccagcca ccctaagccc gctgctgctg acaacctga gctctctgc</p> <p>tcccatggcc ccgagatccc tgcattgccc caccctgtgt ctgacgacag tgacctccct</p> <p>gagtgggct ctagccctgc cgtggggccc accaagcctg ctgcccagcca gctggagtct</p> <p>gacaccatgc ctgaccttcc tgacctact gtagtacta ccagtaccaa tgattaccat</p> <p>gatgctggtg ttgttgatgt tgaagatgat cctgatgaaa tggctgtgtg aaaaatgctc</p> <p>tcttaggtgg ccaggcagt</p>	Homo sapiens

168	3081	Metatonin- Related Receptor	NP_004215.1	MGPTLAVPTP YGCIGCKLPQ PEYPPALIF MFCAMVTIV VDLIGNSMVI LAVTKKKLR P	Homo sapiens
				NSGNIFVVS L SVADMLVAIY PYPIMLHAMS IGGWDLSQLQ CQMVGFITGL SVVGSIFNIV	
				AIAINRYCYI CHSLOYERIF SVRNTCIYIV ITWIMTVLAV LPNMYIGTIE YDPRTYTCIF	
				NYLNNPVTV TIVCIHFVLP LLIVGFCYVR IWKVLAARD PAGQNDNQL AEVRNFLTME	
				VIFLLEAVCW CPINVLTVLV AVSPKEMACK IPNWLILAAY FIAYFNSCLN AVIYGLNLEN	
				FRREYWTIFH AMRHPIIEFP GLISDIREMQ EARTLARARA HARDOAREQD RAHACPAVEE	
				TPMNVNRNPL PGDAAAGHPD RASGHPKPHS RSSAYRKSA STHKSVFSH SKAASGHLPK	
				VSGHSPASG HPKSATVYPK PASVHFEGDS VHFKGDSVHF KPDSVHFKPA SSNPKPITGH	
				HVSAGSHSKS AFSAATSHPK PIKPATSHAE PTTADYPRPA TTSHPKPAAA DNPELSASHC	
				PEIPAIAHPV SDDSDLPESA SSPAAGPTKP AASQLES DTI ADLPDPTVVT TSTNDYHDVV	
				VVDVEDDPDE MAV	
169	3093	Metabotropic Glutamate Receptor 1	NM_000838	gaattccctt acaaacgctt ccagcttgta gaggcggtcg tggaggaccc agaggaggag A	Homo sapiens
				acgaaggga agaggcggt ggtggaggag gcaaaagcct tggacgacca ttgttggcga	
				ggggcaccac tccgggagag gcggcgctgg gcgtcttggg ggtgcgcgcc ggagcctgc	
				agcgggacca gcgtgggaa gcggctgga ggtgtggac ctcgtctca ccaccatggt	
				cgggctcctt ttgtttttt tcccagcat ctttttggag gtgtcccttc tcccagaag	
				ccccggcagg aaagtgttc tggcaggagc gtcgtctcag cgctcggtgg ccagaaatga	
				cggagatgc atcattggag cctcttctc agtcctcag cagcctcgg ccgagaaagt	
				gcccagagg aagtgtggg agatcaggga gcagtatgc atccagagg tggaggccat	
				gtccacacg ttggataaga tcaacgcgga cccgtcttc ctgccaca tcacctggg	
				cagtgagatc cgggactcct gctggcactc ttccgtggct ctggaacaga gcattgagtt	
				cattaggga tctctgatt ccattcgaga tgagaaggat gggatcaacc ggtgtctgcc	
				tgacggccag tccctcccc caggcaggac taagaagccc atgcgggag tgatcggtcc	
				cggctccagc tctgtagcca ttcaagtga gaaactgtc cagctcttcg acatcccca	
				gacgcttat taagccaaa gcctcgacct gactgacaa actttgtaca aatacttct	
				gagggttgc ccttctgaca ctttgcaggc aaggccatg cttagacatg tcaaacgtta	
				caattggacc tatgtctctg cagtccacac ggaagggaat tatggggaga gcggaatgga	
				cgctttcaa gagctggctg cccagggaag cctctgtat gccactctg acaaatcta	
				cagcaacgct ggggagaaga gctttgaccg actcttgcg aaactccag agaggcttc	
				caaggctaga gtggtggtct gcttctgtga aggcattgaca gtgcaggac tctgagcgc	
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				gcagtctca gaggtcaggt catttgatga ttatttccctg aaactgagc tggacactaa	
				cacagggaat cctgtgttc ctgagttctg gcaacatcgg ttccagtgc gcctccagg	
				acaccttctg gaaaatccca actttaaacg aatctgcaca ggcaatgaaa gcttagaaga	
				aaactatgtc caggacagta agatggggtt tgtcatcaat gccatctatg ccatggcaca	
				tgggctgcag aacatgcacc atgcccctcg ccttgccac gtgggctctc gcgatgccat	
				gaagcccatc gacggcagca agctgctgga cttcctcctc aagtcctcat tcatggagt	
				atctggagag gaggtgtggt ttgatgagaa aggagacgct cctggaaggt atgatatac	
				gaatctgcag tacactgaag ctaatcgcta tgactatgtg cacgttgga cctggcatga	
				aggagtgtcg aacattgatg attacaaaat ccagatgaac aagagtggag tgggtcggtc	

tgtgtgcagt gagccttgct taaagggccg gattaagggt atacggaaaag gagaagtgaag
ctgtgtctgg atttgcaagg cctgcaaaag gaatgaatat gtgcaagatg agttcacctg
caaaagcttg gacttgggat ggtggcccaa tgcagatcta acaggctgtg agcccatcc
tgtgcgtat ctgtagtga gcaacatga atccattata gccatgcct ttcatgctt
gggaatcctt gttaccttgt ttgtacacct aatctttgta ctgtaccggg acacaccagt
ggtcaaatcc tccagtcggg agctctgcta catcatccta gctggcatct tccitggtta
tgtgtgccca ttcactctca ttgccaaacc tactaccacc tctgtctacc tccagcgct
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gccattttac ttggggagca actacaagat catcaaaact tgccttgcag tgaatctcag
tgtaacagt gctctgggt gcatgttcac tcccaagatg tacatcatta ttgccaagcc
tgagaggaat gtccgcagt ccttcaccac ctctgatgtt gtccgcagtc atgttgcca
tggcaagctg cctgcccgt ccaaacctt cctcaacatc tccgaaagaa agaaggcagg
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cgaaactgga gaggaggagg aggaacctga ggcggccagc aaactgacct cggtatgattc
gctgcgtg acgctccgt cgcttttccg gactctgtg gactcgggca gctcgggtgct
cagctcccca gtgtccaggt cggtgctctg caccctccc aacgtatcct acgctctgt
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 tatcaccaaa aagtgccttca tcaggcgtgc tacaggagga aggagctaga aatagaacaa
 tccatcagca tgagactttg aaaaaaaa cacatgatca gcttctcatg ttccatattc
 acttattggc gatttgggga aaaggccgga acaagagatt gttacgagag tggcagaaac
 ccttttgtag attgacttgt gtttggcca agcgggcttt ccattgacct tcagttaaag
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 tgaacttcta agatgcgtat atgtacaatt tggtgccatt atttctccta cgtattagag
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 attttttatg ttccaataat gttttataca tcaattgtcat caatatctac agaagctctt
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 ggttatatca tttttttaa gattttccac agttacttga gtgtctaaca tacagtaaca
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 tttattactc tgaatgccta ctattatcct gattatgggg tctctgaat aatagagta
 ttagtcttta tgtcatcatt gtccaataat ggagatgtac acatacatc cctataccaa
 gagggccgaa actcttcacc ttgatgtatg tcttgatata agttgttcag cttctgttaa
 atgtgttttc ctteggcttg ttactgcctt ttgtcaataa atcttgacaa tgcgtgataa
 taaatatatt ctattatt

172	3094	Metabotropic Glutamate Receptor 2	NP_000830.1	<p>aggtccgctt tgaccgcttt ggtgatggtta ttggccgcta caacatcttc acctatctgc gtgcaggcag tggcgctctat cgtaccaga aggtgggcta ctgggcagaa ggcttgactc tggacaccag cctcatccca tgggcctcac cgtcagccgg ccccttgccc gcctctcgct gcagtgagcc ctgcctccag aatgaggtga agagtgtgca gccgggcgaa gtctgtgctt ggctctgcat tccgtgccag cctatgagt accgattgga cgaattcact tgcgtgatt gtggcctggg ctactggccc aatgccagcc tgactggctg cttcgaaactg ccccgaggat acatccgctg gggcgatgcc tgggctgtgg gacctgtcac catcgctgc ctgggtgccc tggccaccct gtttgtctg ggtgtctttg tgcggcaca tgcacacca gtggtcaagg cctcaggtcg ggagctctgc tacatctctgc tgggtgtggt cttctctctg tactgcata ccttcattct cattgccaa ccatccacgg cagtgtgtac ttacggcgt cttggtttgg gcactgcctt ctctgtctgc tactcagccc tgcacacca gaccaaccg attgcacgca tcttcggtgg ggcggggag ggtgccagc ggcacgctt catcagctct gcctcacagg tgccatctg cctggcactt atctcgccc agctgctcat cgtggtgcc tggctgggtg tggaggcacc ggcacagcc aaggagacag ccccgaaag cgggaggtg gtgacactgc gtgcaacca cgcgatgca agtatgttg gctcgtggc ctacaatgtg ctctctcctg cgctctgcac gctttatgcc tcaatactc gcaagtgcg cgaaaacttc aacgaggcca agttcattgg cttcaccatg tacaccacct gcatcatctg gctggcattg ttgcccatct tctatgtcac ctcagtgac tacgggttac agaccaccac catgtgcgtg tcagtacgcc tcagcgctc cgtggtgctt ggctgcctct ttggccccc gctgcacatc atctctctc agccgcagaa gaacgtggtt agccaccggg caccaccag cgcctttggc agtgcgtctg ccagggccag ctcagcctt ggccaagggt ctggctccca gtttgtcccc actgtttgca atggcctga ggtggtggac tgcacaactg catcgctttg a</p>	Homo sapiens
173	3095	Metabotropic Glutamate Receptor 3	NM_000840	<p>RLEAMLFALD RINRDPHLLP GVRUGAHILD SCSDTHALE QALDFVRASL SRGADGSRHI CPDGSYATHG DAPTAITGVI GGSYSDDVSIQ VANLLRLFQI PQISYASTSA KLSDKSRDY FARTVPPDFF QAKAMAEILR FFNTYVSTE ASEGDIYGETG IEAFELEARA RNICVATSEK VGRAMSRAAF EGVVRALLQK PSARVAVLFT RSEDARELLA ASQRINASFT WVASDGMGAL ESVVAGSEGA AEGAITIELA SYPIDFASY FQSLDPWNNS RNFWREFWE QRFRCFSRQR DCAHSLRAV PFEQESKIMF VNAVYAMAH ALHNMHRALC PNTRLCDAM RPNNGRRLYK DFVLNVKEDA PFRPADTHNE VREDRFGDGI GRYNIFTYLR AGSGRYRYQK VGYWAEGLTL DTSLLIPWASP SAGPLAASRC SEPCIQNEVK SVQPGEVCCW LCIPQCPYCYEY RLDEFTCADC GLGYWPNASL TGCFFELPQY IRWGDWAVG PVTIACLGAL ATFLVLGVFV RHNATPVVKA SGRELKYILL GGVFLCYCMT FIFIAKPSTA VCTLRRLGLG TAFSVCYSAL LTKNRIARI FGGAREGAQR PRFISASQV AICLALISGQ LLIVVAVLWV EAPGTGKETA PERREVWTLR CNHRDASMLG SLAYNVLLIA LCTLYAFNTR KCPEFNENAK FIGFTMYTTC IWLALLPIF YVTSSDYRVQ TTTMCVSVSL SGSVVLGCLF APKLHILLFQ PQKNVVSRA PTSREGSAAA RASSSLGQGS GSQFVPTVCN GREVVDSTTS SL</p>	Homo sapiens

gaaacaggat tcataagat gttgacaaga ctgcaagttc ttacotttagc ttgtttttca
aaggatattt tacttctttt agggagccat aactttctaa ggagagagat taaaatagaa
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174	3095	Metabotropic NP_000831.1 Glutamate Receptor 3	<p>tggtttgttg caccacaggt tcacatcatc ctgtttcaac ccacagaaga tggtgtcaca</p> <p>cacagactgc acctcaacag gttcagtgct agtgaactg ggaccacata ctctcagtc</p> <p>tctgcaagca cgtatgtgcc aacggtgtgc aatggggggg aagtccctcga ctccaccacc</p> <p>tcattctgtg gattgtgaat tgcagttcag ttcttgtgtt tttagactgt tagacaaaag</p> <p>tgctcacgtg cagctccaga atatggaaac agagcaaaaag acaaacctca gtaccttttt</p> <p>ttagaaaacag tacgataaat tattttttgag gactgtatat agtcatgtgc tagaaccttc</p> <p>taggctgagt ctagtgtccc tattattaac aattcccca gaacatgaa ataaccattg</p> <p>tttacagagc tgagcattgg tgacagggtc tgactactgc agtactacta aaaaacaaaa</p> <p>aaaaaaacaa aaaaaaaaaa caaaaagaaa aaaaataaaa tacggtggca atattatgta</p> <p>accttttttc ctatgaagtt ttttgtaggt ccttgttgta actaatattag gatgagtttc</p> <p>tatgttgtat attaaagtta cattatgtgt aacagattga tttctcagc aaaaaataaa</p> <p>aagcatctgt attaatgtaa agatactgag aataaaacct tcaaggtttt</p> <p>MLTRLQVLT ALFSKGFLS LGDHNFLRE IKIEGLVLG GLFPINEXGT GTEECGRINE P</p> <p>DRGIQRLAM LFAIDEINKD DYLLPGVKLG VHILDTSRD TYALEQSLEF VRASLTKVDE</p> <p>AEYMCPLDGSY AIQENIPLLI AGVIGGSYS VSIQVANLLR LFOIPQISYA STSAKLSDKS</p> <p>RYDYFARTVP PDFYQAKAMA EILRFENWTY VSTVASEGDY GETGIEAFEQ EARLRNICIA</p> <p>TAEKVGRSNI RKSYSVIRE LLOKPNARVV VLFMRSDSR ELIAAASRAN ASFTWVASDG</p> <p>WGAQESIIGK SEHVAYGAI IELASQVPRQ FDRYFQSLNP YNNHRNPWR DFWEQKFQCS</p> <p>LQNKRNHRRV CDKHLAIDSS NYEQESKIMF VNAVAYAMAH ALHKMQRTLC PNTTKLCDAM</p> <p>KILDGKKLYK DYLLKINFTA PENPNKDADS IVKFDTFDGG MGRYNVENFQ NVGGKYSYLK</p> <p>VGHWAETLSL DVNSIHWRSN SVPTSQCSDE CAPNEMKNMQ PGDVCCWICI PCEPYEYLAD</p> <p>EFTCMDCGSG QWPTADLTGC YDLPEYIRW EDAWAIGPVT IACLGFMCTC MVTVFIKHN</p> <p>NTPLVKASGR ELCYILLFGV GLSYCMTEFF IAKPSPVICA LRRGLGSSF AICYSALLTK</p> <p>TNCIARIFDG VKNGAQRPFK ISPSQVFIC LGLILVQIVM VSWLILEAP GTRRYTLAEK</p> <p>LAFLPIFYVT SSDYRVQTTT MCISVSLSGF VVLGCLFAPK VHILFQPOK NVVTHRLHLN</p> <p>RFSVSGTGT YSQSSASTYV PTVCNGREVL DSTTSSL</p> <p>ccgagtgaca aggaggtggg agagggtagc agcatgggct acgcggttg ctgccctcag A</p> <p>tccccctgct gctgaagctg cctgtcccat gccacccag gccgtggggc caggggcctg</p> <p>ccagggctag gagtgggctt gccgttcctg ggtctctagg gattcccgag atgcctggga</p> <p>agagaggctt gggctggttg tggggccggc tggccctttg cctgctctc agcctttacg</p> <p>gccccgtgat gcttctctcc ctgggaaagc ccaaaaggcca cctcacatg aattccatcc</p> <p>gcatagatgg ggacatcaca ctgggaggcc tgttccccgt gcattggccgg ggctcagagg</p> <p>gcaagccctg tggagaacct aagaaggaaa agggcatcca ccggctggag gccatgctgt</p> <p>tggccctgga tgcgatcaac aacgacccgg acctgtctgc taacatcacg ctgggcgccc</p> <p>gcattctgga caactgtctc agggacaccc atgcccctga gcagtcgctg acctttgtgc</p> <p>aggcgctcat cgagaaggat ggacacagag tccgctgttg cagtgggcggc ccacccatca</p> <p>tcaccaagcc tgaacgtgtg gtgggtgtca tgggtgcttc agggagctcg gtctccatca</p> <p>tgggtggccaa catctctcgc ctctcaaga tccccagat cagctacgcc tccacagcgc</p> <p>cagacccctg tgacaacagc cgtacagact tcttctccc cgtgggtgcc tcggacacgt</p> <p>accaggccca ggccatgggt gacatcgtcc gtgccctcaa gtggaactat gtgtccacag</p>	Homo sapiens
175	3096	Metabotropic NM_000841 Glutamate Receptor 4	<p>ccgagtgaca aggaggtggg agagggtagc agcatgggct acgcggttg ctgccctcag A</p> <p>tccccctgct gctgaagctg cctgtcccat gccacccag gccgtggggc caggggcctg</p> <p>ccagggctag gagtgggctt gccgttcctg ggtctctagg gattcccgag atgcctggga</p> <p>agagaggctt gggctggttg tggggccggc tggccctttg cctgctctc agcctttacg</p> <p>gccccgtgat gcttctctcc ctgggaaagc ccaaaaggcca cctcacatg aattccatcc</p> <p>gcatagatgg ggacatcaca ctgggaggcc tgttccccgt gcattggccgg ggctcagagg</p> <p>gcaagccctg tggagaacct aagaaggaaa agggcatcca ccggctggag gccatgctgt</p> <p>tggccctgga tgcgatcaac aacgacccgg acctgtctgc taacatcacg ctgggcgccc</p> <p>gcattctgga caactgtctc agggacaccc atgcccctga gcagtcgctg acctttgtgc</p> <p>aggcgctcat cgagaaggat ggacacagag tccgctgttg cagtgggcggc ccacccatca</p> <p>tcaccaagcc tgaacgtgtg gtgggtgtca tgggtgcttc agggagctcg gtctccatca</p> <p>tgggtggccaa catctctcgc ctctcaaga tccccagat cagctacgcc tccacagcgc</p> <p>cagacccctg tgacaacagc cgtacagact tcttctccc cgtgggtgcc tcggacacgt</p> <p>accaggccca ggccatgggt gacatcgtcc gtgccctcaa gtggaactat gtgtccacag</p>	Homo sapiens

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176	3096	Metabotropic NP_000832.1 Glutamate Receptor 4	caccttttcc ctctctggcg tccccggctg cttgtactct tggccttttc tgtgtctctc ttctggctct tgcctccgcc tctctctctc atcctctttg tccctcagtc ctcctgcttt cttgggtccc accagtgtca cttttctgcc gttttcttct ctgttctctt ctgcttcatt ctcgtccagc cattgtctcc ctctccctgc cacccttccc cagttccaca acccttacct gttgcaaaag agaaaaaagg aaaaaaatc aaaaacaaaa aaagccaaaa cgaataaaaa tctcagagtgt gttgccaagt gctcgtctct cctggtggcc tctgtgtgtg tccctgtggc ccgcagcctg cccgcctgcc ccgcccattc gccgtgtgtc ttgcccgcct gccccgccc tctgcccgtc gttctggccg cctgcccgcg gttattgacg acaatgtga gcgcatgatt gttttatc tgccctgggt tttggtgatg gttattgacg acaatgtga gttttgcaa aaaa caagaacatt tctaataaaa ataaacacat gttttgcaa aaaa MPGKRGGLGW WARLPLCLLL SLYGPMWPPS LGKPKGHPHM NSIRIDGIT LGGLFPVHGR P GSEKPCGEL KKEKGIHRL AMLFALDRIN NDPDLNPIT LGARILDTC RDTALEQSL TFVQALIEKD GTEVRCGSGG PPIITKPERV VGVIGASGSS VSIMVANILR LFKIPQISYA STAPDLSDNS RYDFFSRVVP SDTYQAQAMV DIVRALKWNV VSTVASEGSY GESGVEAFIQ KSREDGGVCI AQSVKIPREP KAGEFDKIIR RLETSNARA VIIFANEDDI RRVLEAARRA NQTGHFFWMG SDSWGSKIAP VHLLEVAEG AVTILPKRMS VRGFDRYFSS RTLDNNRRNI WFAEFWEDNE HCKLSRHALK KGSVVKKCTN RERIGQDSAY EQEGKVQFVI DAVYAMGHAL HAMHRDLCPG RVGLCPRMDP VDGTLQLLKYI RNWFSGIAG NPVTFNEDDI AGRYDIYQY QLRNDSAEYK VIGSWTDHLH LRIERMHWPG SQQLPRISC SLPCQPGER KTVKGMPCW HCEPCTGYQY QVDRYCTKC PYDMRPTENR TGCRIPIIK LEWGSFWAVL PLFLAVVGLA ATIFWITFV RYNDTPIVKA SGRSLYVLL AGIFLCYATT FLIAEPDLG TCSLRRIFLG LGMSISYAAL LTKNRIYRI FEQKRSVSA PRFISPASQL AITFSLISLQ LLGICVWFVV DPHSHVDFQ DQRTLDREA RGVLCDISD LSLICLLGYS MLLMVTCTVY AIKTRGVPE FNEAKPIGFT MYTTCIVWLA FIPFFGTSTQ SADKLYIQTT TITVSVSLSA SVSLGMLYMP KVYIILFHE QNVPKRKRSL KAVVTAATMS NKFTQKGNFR PNGEAKSELC ENLEAPALAT KQTYVYTNH AI	Homo sapiens
177	3097	Metabotropic NM_000842 Glutamate Receptor 5	acaaaatggt cctttagaaa atacatctga attgctggct aatttcttga ttgcgactc A aacgtaggac atcgctgtgt cgtagctatc agaaccctcc tgaattttcc ccaccatgct atctttattg gcttgaactc ctttctctaa atggtccttc tgttgatcct gtcagtctta cttttgaaag aagatgtccg tgggagtgca cagtcacagt agagagggtt ggtggctcac atgccgggtg acatcattat tggagctctc ttttctgttc atcacagcc tactgtggac aaagtctatg agaggaagtg tggggcggtc cgtgaacagt atggcattca gagagtggag gcatgtctgc ataccctgga agggatcaat tcagacccca cactcttgcc caacatcaca ctgggctgtg agataaggga cttctgtctg cattcggttg tggccctaga gcagagcatt gagttcataa gagattccct catttcttca gaagaggaag aaggtcttgt acgtgtgtg gatggctcct cctcttctct cgcgtccaaag agcccatag taggggtcat tgggcttggc tcaggttctg tagccattca ggtccagaat ttgctccagc ttttcaaat acctcagatt gcttactcag caaccagcat ggtatctgagt gacaagactc tgttcaataa tttcatgagg gttgtgcctt cagatgtctc gcaggcaagg gcatgtgtg acatagttaa gaggtaaac tggacctatg tatcagccgt gcacacagaa ggaactatg gagaaagtgg gatggaagcc ttcaaaagata tgtcagcgaa ggaagggtt tgcacgtccc actcttaca aatctacagt	Homo sapiens

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cactcgagc ctgtggcgcg cagcagctcc tgcaggggt cctcatgga gcagatcagc
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gcggcccca ccccgcgct cggcgcccc gtctgtctgt cctacatgat ccccaagag

3098	Metabotropic Glutamate Receptor 6	Metabotropic NM_000843	3099	gagagggccg ggcagggcgg ctgagtaaac tcccagagc caaagtggaa ggcgcgcccc A	Homo sapiens
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				tggcgcggcc ccgagagacc cgggagccgc tgcctgtggc tgcctgtggc ctgcctgtggc	
				tggcgcaagg ggcctgtggc cgcgcggcgg gctctgtgac cctgtgtggc ggcctgacgc	
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				agaaggagca gggcgtgcac cggctgaggg ccatgtgta cgcctggac cgcgtcaacg	
				ccgaccccg gctgctgccc ggcgtgcggc tgggcgcggc gctgctggac acctgtcgc	
				gggacacct cgcgctggag caggcgtga gctcgtgca ggcgctgac cgcggcccg	
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				ccaacgtgct gcgcctgttt gcgatacccc agatcagcta tgcctccaca cccccggagc	
				tcagcgact cacacgctat gacttcttct cccgggtggt gccaccgac tccataccagg	
				cgcaggccat ggtggacatc gtgagggcac tgggattggaa ctatgtgtcc acgtcggcct	
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				gcaaggtgat caggagactc atggagacgc ccaacgcgcg gggcatcatc atcttgcca	
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				tgtcgaagtg cgacatgtcg gatctgtctc tcatcggctg cctgggctac agcctctg	

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180	3098	Metabotropic NP_000834.1 Glutamate Receptor 6	<p> tgggcctctc tggcaggaac tctgatgcac cgcgaggccc atgtactect gtggctttct cacattcggt ctacttgcag ggtatctcca cagcatgcac cattctgggt acagggggac atcctctggt actgaagatg ttgtcatatt tagtaccttc acaagggttc tctccttcca gaattttctg atgtacacaa ataatgact tccacaagag ggcttttcca cactcggtgt gtgcatacag ttcttgcctg tgatcatttc tttatgttat tttttttt tttcgagata gggtcttgct caatttctta gctggagtg cagtggcacg atcatagctc actgaagttt cgacctgggc tcaagcaatc ctcccgttc agcctcctga gtactgggtg cgcacgacca taccagctga atgttttatt tttgttagag acgaggtctc actatgttc ccaggctgggt ctcgaaacttc tgagctcgag cgatcctcct gctccacct cccaaaagtgt tcggattaca aacgtgagcc atcgacaccta gcctcttga tcatctctgt ggtgttcagt gggggttgac agctccctaa agattttcct gttttttgc atgcatgggt ttgaattctt tgaggtccaa tttatttggga cccctgaata agtttttgc ggttttcttc tatgtgtga attatatagg cattcttcca gtgtggttcc tcttatgtcg agtgagagct gacctgcacc gaagtttctc ccatttcttg ccttggaatt atctgtatga attatatgtt ccagtgaataa tggagtctcg ggttggaggc ttattccatg ttacacaaat taaaattgca gtgttctctc ctgggatgag agctctaaag cagagtaaga ttacgttctg atgtaagctt taaccacctt tttataaggt ctcacctgtg gtccactgtg ttgagacttc tacagaagag cttctgtata gtaaccattt tcttaggctg tctcacttgt gtgaatcttc tgacacattt attatagctt tgtcccat cttatccctt ttgctcttta gaaatttccc tttaatattt tacattcatt gcttactgta aagagtccag gtaactgact ttaattcaag ttacttctgt ttcaataaat ttaacttttc cc </p>	Homo sapiens
181.	3099	Metabotropic NM_000844 Glutamate Receptor 7	<p> MARRRRREP LLVALLPLAW LAQAGLARA GSVRLAGGLT LGGLFPVHAR GAAGRACGPL P KKEQGVHRL AMLYALDRVN ADPELLPGVR LGARLLDTCs RDTYALEQAL SFVQALIRGR GDGDEVGVR PGVPPPLRPA PPERWAVVG ASASSVSIMV ANVLRLEAIP QISYASTAPE LSDSTRYDFF SRVPPDSYQ AQAMVDIVRA LGWNYVSTLA SEGNYGESGV EAFVQISREA GGVCIAQSIK IPREPKGEF SKVIRRMET PNAGIIIFA NEDDIRRVLE AARQANLTGH FLWVGSDSWG AKTSPILSL DVAVGATIL PKRASIDGFD QYFMTSRLEN NRRNIWFAEF WEENFNCKLT SSGTQSDST RKTGEERIG RDTYEQEGK VQFVIDAVYA IAHALHSMHQ ALCPGHTGLC PAMEPTDGRM LQYIRAVRF NSAGTFVME NENGDAAGRY DIFQYQATNG SASSGGYQAV GQWAEITRLD VEALQWSGD PHEVPSSICSL PCGGERKKM VKGVPCCWHC EACDGYRFQV DEFTCEACPG DMRPTNHTG CRPTPVWRLS WSSPWAAPPL LIAVLGIVAT TTVVATFVRY NNTPIVRASG RELSYVLLTG IFLIYAITFL MVAEPGAACV AARLFLGLG TTLSYSALLT KTNRIYRIFE QGRSVTPPP FISPTSQVFI TFSLSLSQV GMIAWLGRAP PHSVIDYEEQ RTVDPEQARG VLKCDMSDLS LIGCLGYSLL LMVCTVYAI KARGVPETFN EAKPIGFTMY TTCIIWLAFV PIFFGTAQSA EKIIYQTTTL TVSLSLASV SLGMLYVPKT YVILFHEQN VQKRRLSKA TSTVAAPKG EDAEAHK gaattcccaa caccaggta atttttgtat ttttagtaga gattgggttt caccatgttg A gccaggatgg tctccatctc ttgacctcgg gattcctcctg gcttgggtctc caaagtgct gggattacag gcatgagtc ccatatccag ccaactgcag tcatcttat ggggcaaca cttgggtgaa cccagggttt ctaagagatac aaacctatgg gcaacaccaa gcatttcta ggaataggca cctgggtgac tccaggcatt ctaataatag agacacctgg gcgaactcag </p>	Homo sapiens

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182	3099	Metabotropic Glutamate Receptor 7	NP_000835.1	<p>tactgtgtat gccatcaaga ctctgggtgt acccgagaat tttaacgaag ccaagcccat tggattcact atgtacacga catgtatagt atggcttgcc ttcatctcaa ttttttttgg caccgctcaa tcagcggaag agctctacat acaaaactacc acgcttacaa tctccatgaa cctaagtga tcagtggcgc tggggatgct atacatgccc aaagtgtaca tcacagcagc ccaccctgaa ctcaatgtcc agaaacggaa gcgaagctga aggcggtag tcacagcagc caccatgtca tcgaggtctg cacacaaacc cagtgacaga cccaacggtg aggcaaaagac cgagctctgt gaaaacgtag acccaaacag ccctgctgca aaaaagaagt atgtcagtta taataaacctg gttatctaac ctgttccatt ccatggaacc atggaggagg aagaccctca gttattttgg caccacacct ggcataggac tctttggtcc tacccgcttc ccatcacccg aggagcttcc ccggccggga gaccagtgtt agaggatcca agcgacctaa acagctgctt tatgaaatat ccttacttta tctgggctta ataagtcact gacatcagca ctgccaaact ggctgcaat gtggaccttc cctaccaaaag ggagtgtga aactcaagtc ccgcccggc tctttagaat ggaccactga gagccacagg accgttttgg ggctgacctg tcttattacg tatgtacttc taggttgcaa ggttttgaaa ttttctgtac agttgtgag gacctttgca ctttgccatc tgatgtcgta cctcggttca ctgtttgttt tcgaatgctt tgttttcata gagccctatt ctctcagacg gtggaatatt tggaaaaatt ttaaaaaaat taaaatttta aagcaatctt ggcagactaa aacaagtaca tctgtacatg actgtataat tacgattata gtaccactgc acatcatgtt tttttttttt aagacaaaaa agatgtttta agacaaaaa ctgtgtgag aagtatgcc ccacctatct ttggtatatg ataggttaca taaaagggaag gtattggctg aactgaatag aggtcttgat ctttggaaat catgccagta atgtatttta cagtacatgt ttattatgtt caatatgtgt atttgtgttc tctttgtga tttttaatta gggtatatga atattttgca ataatttta taattattaa gctgtttgaa ggaagaata tggatttttc atgtcttgag gttttgttca tgcacctttt gactgacag tgtgataagg actttaggaa aaaagcatg tatgtttttt actgttttga ataatgactt tcgttaactt tgctgcttat gtgccaattt agtgaaaaa acaaacctt gctgaaaaat tccctcttc cattctctt caattctgtg atattgtcca agaattgata aataaggaaat tc MVQLRKLRLV LTMKPPCCV LEVLICALAA AARGQEMYAP HSIRIEGDVT LGGLFPVHAK P GPSGVPCGDI KRENGIHRLE AMLYALDQIN SDNLLPNVT LGARILDTCR RDTYALEQSL TFVQALIQKD TSDVRCNTE PPVFVKPEKV VGVIGASGSS VSIMVANILR LFQIPQISYA STAPESDDR RYDFSRVVP PDSFQAQAV DIVKALGWNY VSTLASEGSY GEKGVESFTQ ISKEAGGLCI AQSVRIQPER KDRTFIDFRI IKQLLDTPNS RAVVIFANDE DIKQILAAAK RADQVGHFLW VGSDSWGSKI NPLHGHEDIA EGAITIQPKR ATVEGFDAYE TSRTLENNRR NVWFABYWEF NFNCKLTISG SKKEDTRKC TQBERIGKQV NYEQEGKVQF VTDAYAMAH ALHNMNKDLC ADYRGVCPPEM EQAGGKLLK YIRNVNFGS AGTFVMFNKN GDAPGRYDIF QYQTTNTSNP GYRLIGQWTD ELQLNIEDMQ WKGVREIPA SVCTLPCKPG ORKTKQKTP CCWTCPCDGG YQYQFDEMT C QHCPYDQRPN ENRFGQDIP I IKLEWHSPW AVTPVFLAML GIATIFVMA TFIRYNDTPI VRASGRELSY VLLTGIFLCY IITFLMIAP DVAVCSFRV FLGLGNCISY AALLTKTNRI YRIFEQKKS VTAPRLISPT SQLAITSLI SVQLIGVFIW FGVDPENIII DYDEHKTMP EQARGVLKCD ITDQIICSL GYSILLMVT TVYAIKTRGV PENFNEAKPI GFTMYTTCIV WLAFIPFFG TQSAEKLVI QTTTLTISMN LSASVALGML YMPKVYLIIF HPELVQKRK RSFRAVVTAA TMSRSLSHKP SDRENCEAKT ELCENVDPNS</p>	Homo sapiens
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183	3100	Metabotropic Glutamate Receptor 8	PAAKKKYVS Y NNLVI	Homo sapiens
			<p> tgcgtgtgtg caagaataaa ctttgggtct tggattgcaa taccacctgt ggagaaaaatg A gtatgcgagg gaaagcgatc agcctcttgc ccttgtttct tcctcttgac cgccaagtct tactggatcc tcacaatgat gcaagaact cacagccagg agtatgccca ttccatacgg gtggatggg acattattt ggggggtctc ttcccttgc acgcaagg agagagagg gtgcttctgt gggagctgaa gaagaaaaag gggattcaca gactggagg catgctttat gcaattgacc agattaacaa ggaacctgat tcccttcca acatcactct ggggtgtccgc atcctcgaca cgtgctctag ggaaccttat gcttggagc agtctctaacc attcgtgcag gcattaatag agaagatgc ttcggatgtg agtgtgcta atggagatcc accattttc accaagccc acaagatttc tggcgtcata ggtgctgcag caagctccgt gtccatcatg gttgctaaca ttttaagact ttttaagata cctcaaatca gctatgcac cacagccca gagtaagt ataacaccag gtatgacttt ttctctcgag tggttccgct tgaactctac caagcccaag ccattggtgga catcgtgaca gcaatgggat ggaattatgt ttogacactg gcttctgagg ggaactatgg tgagagcgtt gtggaggcct tcacccagat ctcgagggag attggtggtg ttgcatctgc tcagtcacag aaatccccc acactaatg ctgagcagt gattatgtt tttgaaaaa ttatcaaac cctgctagaa acactaatg ctgagcagt gattatgtt gccaatgagg atgacatcag gaggatattg gaagcagcaa aaaaactaaa ccaaatgtgg catttctct ggattgctc agtagattgg ggaatccaaa tagcacctgt ctatcagcaa gaggagatt cagaaggggc tgtgacaatt ttgcccatt ggaatcaat tgatggattt ttctgggagg agaattttg ctgcaagtta ggaatcactg ggaagaggaa cagtcatata aagaaatgca cagggtgga gcaattgtc cgggattcat ctatgaaca ggaaggaaag gtccaatctg taattgatgc tttatatctc atggttacc cctgcacaa tatgcacaaa gatctctgcc ctggatcat tggcctttgt ccagcaatga ttaccattga tgggaaagag ctacttgggt atattcggc tgaataattt aatggcagt ctggcactcc tgcactttt aatgaaaacg gagatgctcc tggacgttat gatatcttc accatcaaat aaccaaaaa agcacagagt acaagtcac cggccactgg accaatcag ttcatctaaa agtggaaagac atgcagtggg ctcatagaga acatactcac cggcgtctg tctgcagcct gcggtgtaag ccaggggaga ggaagaaaac ggtgaaagg gtccttctgt gctggcactg tgaacgctgt gaagggtaca actaccaggt ggtgagctg tctgtgaaac ttgcccctct ggaacagaga cccaacatga accgcacagg ctgccagctt atccccatca tcaaatgga gtggcattct ccctgggctg tgggtgctgt tttgtgtgca atattggaa tcatcgccac cactttgtg atcgtgacct ttgtccgcta taatgacaca cctatcgtga gggcttcagg acggaactt agttacgtgc tctcaacggg gatcttctc tgttatcaa tcaactttt aatgattgca gcaccagata caatcatatg ctcctccga cgggtcttcc taggacttgg catgtgttc agctatgcag cctctctgac caaacaac cgtatccac gaattattga gcaggggaaag aaatctgtca cagcgcacaa gttcattagt ccagcatctc agctgtgat cacttcagc ctcatctccg tccagctcct tggagtgttt gtctgggtttg ttgtggatcc cccccatc atcattgact atggagagca ggggacacta gatccagaga aggcagggg agtgcctcaag tgtgaattt ctgattcttc actcatttgt tcaattggat acagtatcct ctgtatggtc </p>	

184	3100	Metabotropic NP_000836.1 Glutamate Receptor 8	actgttactg tttatgcaa taaacagaga ggtgtccag agaatttcaa tgaagccaaa cctattggat ttaccatgta taccacctgc atcatttggg tagctttcat ccccatcttt tttggtacag ccagtcagc agaaaagatg tacatccaga caacaacact tactgtctcc atgagtttaa gtgcttcagt atctctggc atgtctata tgcccaaggt ttatatata atctttcatc cagaacagaa tgttcaaaaa cgcaagagga gcttcaaggc tgtggtgaca gctgccacca tgcaaaagcaa actgatccaa aaaggaagt acagaccaa tggcgagggtg aaaagtgaac tctgtgagag tcttgaacc aacacttct ctaccaagac aacatatc agttacagca atcattcaat ctgaacacag gaaatggcac aatctgaaga gacgtggtat atgatcttaa atgatgaaca tgagaccgca aaaattcact cctggagatc tccgtagact acaatcaatc aaatcaatag tcagtcttgg aaggaacaaa aattagccat gagccaaaag tatcaataaa cggggagtga agaaacccgt ttatacaat aaaaccaatg agtgtcaagc taaagtattg cttattcatg agcagttaaa acaaatcaca aaaggaaaaa taatgttagc tcgtgaaaaa atgctgttg aaataataaa tgtctgagt tattcttgta ttttctgtg atttgagaaa ctcccggtcc tgtccacat tgtttaact gtataagaca atgagtctgt ttcttgtaat ggtgaccag atbgaagccc tgggtgtgtgc taaaaataaa tgcaatgatt gatgatgca atttttata caaataattt atttctaata ataaaggaat gttttgcaaa aaaaaaaaa aaaaactcga g	RVNDDIILGG LFPVHAKGER P RILDTCSRDT YALEQSLTFV MVANILRLFK IPQISYASTA LASEGNYES GVEAFTQISR FANEDDIRRI LEAAKLNQS FDRYFRSRTL ANRRNVWFA KVQFVIDAVY SMAYALHNMH ARDSSYEQEG FNGSDAPGR YDIFQYQITN FNGSAGTPVT KPGERKKTVK GVPCCWHCER SPWAWVPFV AILGIIATTF AAPDTIICSF RRVFLGLGMC SLISVQLLV FWFVVDPPH VTCTVYANKT RGVPETFNEA SMSLSASVSL GMLYMPKVYI VKSELCESE TMTSTTKTTY	Homo sapiens
185	3212	Opioid mu- type Receptor	ggaattccgg ctataggcag aggagaatgt cagatgctca gctcgggtccc ctcgcctga A cgctctctc tgtctcagc aggaatgggt tctgtaagaa acagcaggag ctgtggcagc ggcgaagga agcggtgag gcgcttgga ccgaaaaagt ctggtgtctc ctggttacct cgcacagcg tgcccgccc gccgtcagta ccatggacag cagcgtgccc cccacgaacg ccagcaattg cactgatgcc ttggcgctact caagtgtctc cccagcacc agccccggtt cctgggtcaa cttgtccac ttagatggca accatgcggt cogaaccgga ccaactggg cgggagagac agctgtgccc ctcgacccg cagtccctcc atgatcacga ccatcacgat catggccctc tactccatcg tgtgctggtt ggggctcttc ggaacttcc	gctcgggtccc ctcgcctga A acagcaggag ctgtggcagc ctggtgtctc ctggttacct cagcgtgccc cccacgaacg ccagcgtgccc cccagcacc agccccggtt cccatgcggt cogaaccgga cagtccctcc atgatcacga ggggtctctc ggaacttcc	Homo sapiens

186	3212	Opioid mu- type Receptor	NP_000905.1	MDSSAAPTNA SNCTDALAYS SCSPPSPGS WVNLSHLDGN LSDPCGPNRT NLGRDLSLCP P PTGSPSMITA ITIMALYSIV CVVGLFGNFI VMVIVIRYTK MKTATNIYIF NLALADALAT STLPFQSVNY LMGTFPFGTI LKIVISIDY YNMFTSIFTL CTMSVDRYIA VCHPVKALDF RTPRNAKIIN VCNWILSSAI GLPVMFMATT KYRQGSIDCT LTFSHPTWYW ENLVKICVFI FAFIMPVLI TVCYGLMILR LKSVRMISGS KEKDRNLRII TRMVLVWVAV FIVCWTPIH YVILKALVTI PETTFQTVSW HFCIALGYTN SCINPVLVYAF LDENFKRCFR EFCIPTSSNI EQONSTRIRQ NTRDHPSTAN TVDRTNHOLE NLEAETAPLP atgaacactt cagccccacc tgcgtgcagc cccaacatca ccgctcctggc accaggaaag A ggctccctggc aaggggcctt cattgggagc accacgggcc tccgtgcgt agccacagtg acagggaacc tgcctgtact catctcttc aaggtcaaca cggagctcaa gacagtcact aactacttcc tgcctgagcct ggctgtgtgt gacctcatca tgggtacctt ctccatgaac ctctatacca cgtactctgt catggggccac tgggctctgg gcaagctggc ttgtgacctc	Homo sapiens
187	3223	Muscarinic acetylcholin e Receptor M1	NM_000738	atgaacactt cagccccacc tgcgtgcagc cccaacatca ccgctcctggc accaggaaag A ggctccctggc aaggggcctt cattgggagc accacgggcc tccgtgcgt agccacagtg acagggaacc tgcctgtact catctcttc aaggtcaaca cggagctcaa gacagtcact aactacttcc tgcctgagcct ggctgtgtgt gacctcatca tgggtacctt ctccatgaac ctctatacca cgtactctgt catggggccac tgggctctgg gcaagctggc ttgtgacctc	Homo sapiens

188	3223	Muscarinic acetylcholin e Receptor M1	NP_000729.1	<p> tggctggccc tggactatgt ggccagcaat gctccgtca tgaatctgct gctcaccg tttgaccgt acttctcgt gactcgccc ctgagctacc gtgccaagcg cacacccgc cgggcagctc tgatgatcgg cctggcctgg ctggttctct ttgtgctctg ggccccagcc atcctctctt ggcagctacct ggtaggggag cggacgatgc tagctgggca gtgctacatc cagttctctt cccagcccat cctacattt ggcacagcca tggctgctct ctactccct gtcacagtca tgtgcacgt ctactgggc atctacggc agacagagaa ccgagcacgg gagctggcag cccttcaggg ctccgagagc ccaggcaag ggggtggcag cagcagcagc tcagagaggt ctacgcccag ggtgagggc tcaccagaga ctctccagg ccgtgctgt cgctgtgcc gggccccag gctgctcag gctacagct ggaaggaga agaggaaagag gacgaaggct ccatggagtc cctcacatcc tcagagggag aggagcctgg ctccgaagtg gtgatcaaga tgccaatggt ggaccccgag gcacagggc ccaccaagca gccccacgg agctcccaa atacagtcaa gagccgact agaaaaggc gtgacgagc tggcaaggcg cagaagcccc gtggaagaga gcagctggc aagcgaagg ccttctcgt ggtcaaggag aagaaggcgg ctggacctt gctgacctc tgcaaggact gtgttccga gacctgtgg tacaacatca tgggtctggt gtccacctc agcaccatca acccatgtg ctacgcactc gagctgggct actggctgtg ctacgtcaac agcaccatca acccatgtg ctacgcactc tgcaacaaa ccttcggga cacttctgc ctgctgtgc ttgcccgtg ggacaagaga cgctggcgca agatcccaa gcgccctgg tccgtgcacc gcactccct ccgcaatgc tga </p>	Homo sapiens
189	3224	Muscarinic acetylcholin e Receptor M2	NM_000739	<p> atgaataact caacaaactc ctctaacaat agcctggctc ttacaagtcc ttataagaca tttgaagtgg tgtttattgt cctgggtggt ggtaccctca gtttggtag cattatcggg aacatcctag tcatggttcc cattaaagtc aaccgccacc tccagaccgt caacaattac tttttattca gcttgccctg tctgacctt atcataggtg ttttctccat gaactgtgac acctctaca ctgtgattgg ttactggcct ttgggacctg tgggtgtgta cctttggcta gacctggact atgtggtcag caatgcctca gttatgaatc tgcctatcat cagctttgac aggtacttct gtgtcacaaa acctctgacc taccagatca agcggaccac aaaaatggca ggtatgatga ttgcagctgc ctgggtcctc tcttctatcc tctgggctcc agccattctc ttctggcagt tcatgttagg ggtgagaact gtggaggatg gggagtgtca cattcagttt ttttccaatg ctgctgtcac ctttggtagc gctattgcag ccttctattt gccagtgtac atcatgactg tgcctattg gcacatatcc cgagccagca agagcaggat aaagaaggac aagaaggagc ctgttgccaa ccaagacccc gtttctccaa gttctgtaca aggaaggata gtgaagccaa acaataacaa catgccagc agtgacgatg gcctggagca caacaaaaac cagaatggca aagccccag ggtacctgtg actgaaaaact gtgttcaggg agaggagaag </p>	Homo sapiens

190	3224	Muscarinic acetylcholin e Receptor M2	NP_000730.1	gagagctcca atgactccac ctcaagtcagt gctgttgccct ctaaatatgag agatgatgaa ataacccagg atgaaaaaac agtttccact tccctgggcc attcacaaga tgagaaactct aagcaaacat gcatcagaat tggcaccacg acccccaaaa gtgactcatg taccaccaact aataccaccg tggaggtagt ggggtcttca ggtcagatg gagatgaaaa gcagaatatt gtagcccgca agattgtgaa gatgactaag cagcctgcaa aagaagagcc tctcctctcc cgggaaaaaaga agtccaccag gacaattctg gctattctgt tggctttcat catcacttgg gccccataca atgtcatggt gctcattaac accttttgtg caccttgcat ccccaaeact gtgtggacaa ttgtgtactg gctttgttac atcaaacgca ctataaccc tgcctgctat gcactttgca atgccacct caagaagacc tttaaacacc ttctcatgtg tcattataag aacataggcg ctacaagta a	Homo sapiens
191	3226	Muscarinic acetylcholin e Receptor M4	LG1143	FLFSLACADL IIGVFNNLY TLYTVIGWNP LGPVVCDLWL ALDYVVSNA VMNLLIISFD RYFCVTKPLT YPVKRTTKMA GMMIAAAWVL SFILWAPAIL FWOIVGVRT VEDGECYIQF FSNAAVTFTG AIAAFYLPVI IMTVLYWHIS RASKSRIKDD KKEPVANQDP VSPSLVQGR VKPNNNMPS SDDGLEHNI QNGKAPRDPV TENCVQGEK ESSNDSTSVS AVASNMRRDE ITQDENTVST SLGHSKDENS KQTCIRIGTK TPKSDSCTPT NTTVEVVGSS GONGDEKQNI VARKIVKMTK QPAKKKPPS REKKVTRTIL AILLAFIITW APYNVMVLIN TFCAPCIPT VWTIGYWLKY INSTINPACY ALCNATFKKT FKHLIMCHYK NIGATR CCTGGCAGTG CCGATGTTCC GATACATGGCA CAGCAGCAGG TGCCGGGAAG TCTTTTAA A GGTGGCGTTG CACAGAGCAT AGCAGGCAGG GTTGATGGTG GTCTTGACGT AGCAGAGCCA GTAGCCCAATG GACCACACCG GGTGAGGAT GCAGTCTGG CAGAAGGTGT TCACCAGGAC CATGACGTTG TGAGGCGTCC CGGTGAGGAT GAAAGCTAAC ANAATGGCAA AGATCGGTG TGGCACTTTG CGCTCCCGG CCGCATCTG CGCCTCTCTG CGCACCTGG TGCAGCGAT GCTAGCGAAC TTGCGGGCCA GGTGGCGCG AGCGCGCTG CAGNCGGCGT GGGAGGGACA ATCTCAGGGC TGGCACACAC TCATGGGCTG GCTGGCTTCG TCAAATTTTG GATCTTGGAC CATCTGGGAG GCTTGGTTGA AGGCCCCCGG CTCGGACITG CGGGCATGAA TCCAGGCCCT ACTCTANAGG ATCCCCCCT CTCC	Homo sapiens
192	3226	Muscarinic acetylcholin e Receptor M4	NM_000741	atggccaact tcaacacctg caatggcagc tcgggcaatc agtccgtgag cctggtaacg A tcatcatccc acaatcgcta tgagacggtg gaaatggtct tcatgccc acgtgacaggc tccctgagcc tggtagactgt cgtgggcaac atcctggtga tgctgtccat caaggtcaac aggcagctgc agacagtcaa caactacttc ctcttcagcc tggcgtgtgc tgatctcatc ataggcgct tctccatgaa cctctacacc gtgtacatca tcaagggtca ctggccctg ggcgccgtg tctgcgacct gtggctggcc ctggactacg tggtagcaa cgctccgtc atgaaccttc tcatcatcag ctttgaccgc tactctgctg tcaccaagcc tctcacctac cctgccccgc gcaccaccaa gatggcagc ctcctgctg ctgctgctg ggtactgtcc ttcgtgctct gggcgccctgc catctgttc tggcagttg tggtaggtaa gcgagcgtg ccgacaacc actgcttcac ccagttcctg tccaacccag cagtgaacct tggcacagcc attgctgct tctacctgcc tgtggtcatc atgacggtgc tgtacatcca catctccctg gccagtcgca gccgagtcga caagcacccg cccgagggcc cgaaggagaa gaaagccaag acgtggcct tctcaagag ccactaatg aagcagagcg tcaagaagcc ccgcccggga ggcgccccg gaggactgag caatggcaag ctggaggagag cccccccg agcgtgcca	Homo sapiens

185/448

Homo
sapiens

P

NP_000732.1

Muscarinic
acetylcholin
e Receptor
M4

3226

193

ccgccaccgc gcccggtggc tgataaggac. acttccaatg agtcagctc aggcagtgcc
 acccagaaca ccaaggaacg ccagccaca gagtgtlcca ccacagaggc caccactccc
 gccatgcccg cccctccctt gcagccgagg gcccacaacc cagcctccag atggtccaag
 atccagattg tgacgaagca gacaggcaat gagtgtgtga cagccattga gattgtgcct
 gccacgcggg ctggcatgcg cccctggccc aacgttggcc gcaagttgcg cagcatcgct
 cgcaaccagg tgcgaagaa gcggcagatg gcggccgggg agcgcaaatg gacacgaacg
 atctttgcca ttctgtcagc ctccatctc accctggacg cctacaacgt catggtcctg
 gtgaacacct tctgccaagc ctgcacctt gacacggtgt ggtccattgg ctactggctc
 tgtacagtea acagaccat caacctggcc tgcctatgctc tgtgcaacgc caccittaaa
 aagaccitcc ggcacctgct gctgtgccag tateggaaca tcggcactgc caggttag
 MANFTPVNGS SGNQSVRLVT SSSHNRVETV EMVFIATVTG SLSLVTVVGN ILVMSIKVN
 RQLQTVNNYF LFSLACADLI IGAFSMNLYT VYIIKGYWPL FVLWAPALIF WQFVVGKRTV
 MNLLIISFDR YFCVTKPLTY PARRTKMAG LMIAAAWVLS GAVVCDLWLA LDYVVSNASV
 PDNHCFIQEL SNPAVTFGA IAAFYLPVVI MTVLYIHISL ASRSRVHKHR PEGPKKKAK
 TLAFLKSPML KQSVKKRPRG GRPGLRNGK LEEAPPALP PPRPVADKD TSNESSGSA
 TONTKERPAT ELSTTEATP AMPAPPLQPR ALNPASRWSK IQIVTKQTGN ECVTAIEIVP
 ATPAGMRPAA NVARKEASIA RNQVRKKROM AARERKVTRT IFAILLAFIL TWTPNVNVL
 VNTFCQSCIP DTVWSIGYWL CYVNSTINPA CYALCNATFK KTFRHLILCQ YRNIGTAR
 atggaagggg attcttacea caatgcaacc accgtcaatg gcaccccaat aatcaccagc A
 cctttggaac gccacagggt gtgggaagtc atcaccattg cagctgtgac tgctgtggta
 agctgtatca ccattgtggg caatgtcttg gtcatgatct ccttcaagt caacagccag
 ctcaagacag ttaacaacta ttacctgtc agcttagcct gtgcagatct catcatigga
 atcttctcca tgaacctcta caccacctac atcctcatgg gacgctgggc tctcgggagt
 ctggcttggt acctttggct tgcactggac tacgtggcca gcaacgcttc tgtcatgaac
 ctctgggtga tcagttttga ccgttacttt tccatcaca gaccttgac atatcgggcc
 aagcgtactc cgaagaaggc tggcatcatg attggcttgg cctggctgat ctcttcatc
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 gatgagtgc agatccagtt tctctctgag cccaccatca ctttggcac tgccattgct
 gcttctaca tccctgttct tgtcatgacc atccttact gtgaaatcta ccgggaacaa
 gagaagcgaa ccaaggacct ggctgacct cagggttctg actctgtgac caaagctgag
 aagagaaagc cagctcatag ggctctgtc agatcctgtc tgcgtgtgct tcgacccacc
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 accacctgta gcagctaccc ttccctcagag gatgaggaca agcccggcac tgaccctgtc
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 gagactgagg aaacttttgt gaaagctgaa actgaaaaaa gtgactatga caccctaaac
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 aaaatcatgc cctgccctt cccagtggcc caggaaaggt caacgaaagg cctcaatccc
 aacccagcc atcaaatgac caaacgaaag agagtgtgct tagtcaaaaga gaggaagca
 gccacagac tgagtggcat tctcctggcc ttcatcatca catggacccc gtataacatc

Homo
sapiens

A

NM_012125

Muscarinic
Acetylcholin
e Receptor
M5

3227

194

197	3378	Tachykinin Receptor 3	NP_001050.1	<p>aaggtagtgt ataaatgtga caaagacact aataacatgt tagcctccac caaaaataaa atgggcttta aattt</p> <p>PVALPAAETW IDGGGGVGAD AVNLTAASLAA GAATGAVETG WLQLLDQAGN LSSSPSALGL P PVASPAESPQ WANLTNQFVQ PSWRIALWSL AYGVVAVAV LGNLIVTWII LAHKRMPTVT NYFLVNLAFS DASMAAFNTL VNFYIALHSE WYFGANYCRE QNFFPITAVF ASIYSMTAIA VDRYMAIDP LKPLRSATAT KIVIGSIWIL AFLLAPOCL YSKTKVMPGR TLCFVQWPEG PKQHTYHII VIILVYCFEL LIMGITYTIV GITLWGEIP GDTCDKYHEQ LKAKRKVVFM MIIVMTFAI CWLPYHIYFI LTAIYQQLNR WKYIQVVLV SFWLMSSTM YNPIIYCCLN KRERAGFKRA FRWCPFIKVS SYDELELKT T REHPNRQSSM YTVTRMESMT VVFDPNADAT TRSSRKKRAT PRDPSFNGCS RRNSKSASAT SSFISSPYTS VDEYS</p>	Homo sapiens
198	3380	Neuromedin B Receptor	NM_002511	<p>gtgctgtgag gcttgccgc ggacagtaaa cttgcagggg cgagaggagg ggacatcgat A taaacctaaa tegtggcgt tcagtcctca gggcacccag cgcgtgaaaa ctccagccga ctctgctgga aaggagatca tgccctctaa gtctctttcc aacctctcgg tgaccaccgg cggaatgag agcgggtccg ttcccgaagg gtgggaaagg gatttcctgc cgccctcga cgggaccacc acggagttgg tgatccgctg tggatcccg tccctacc tgctcatcat caccgtggc ttgctggga acatcatgct ggtgaagatc ttcatcacca acagcgccat gaggagcgtc cccaacatct tcactctaa cctggcggc ggggacttgc tgctgctgt cacctgcgtc ccggtggag cctcgcgta cttcttcgag gagtggatgt ttggcaaggt ggcgtgaaa ctgataccctg tcatccagct cacttcctg ggggtttccg gtctcactct cactgcccct agcgcgaca ggtacagagc catcgttaac cccatggaca tgcagacgtc aggggcattg ctgcggacct gtgtgaaggc catgggtatc tgggtggtct ccgtgtgtct ggcagttccc gaagcgtgtg tticagaagt ggctcgatc agtagcttgg ataatagcag cttcacagca tgtatcccat accctcaaac agatgaatta catccaaaaga ttcatcagat gtcattttc ttggtctatt tctcatacc acttgctatt attagcattt attattatca tattgcaaa agccttaatta aaagcgaca caatcttctt ggagaataca atgaacatac caaaaaacag atggaaacac ggaacgcct ggctaaaatt gtgcttctct ttgtgggctg tttcatcttc tgttggttc caaacacat cctttacatg tctcgtctt tcaactataa tgagattgat ccatctctag gccacatgat tgtcacctta gttgcccggt tctcagttt tggcaattct tgtgtcaacc catttgctct ttacctactc agtgaaagct tcaggaggca tttcaacagc caactctgct gtgggaggaa gtccctatcaa gagagaggaa ccagctacct actcagctct tcagcgtgct gtagacatc tctgaaaagc aatgctaaga acatggtgac caattctgtt ttactaaatg ggcacagcat gaagcaggaa atggcaatgt gattttggcc attcaactca ctacctggag agaacttagt aa</p> <p>MPSKSLNLS VTGANESGS VPEGWERDEL PASDGTTEL VIRCVIPSLY LLIITVGLLG P NIMLVKIFIT NSAMRSVPNI FISNLAAGDL LLLLTCTVPVD ASRYFFDEWM FGKVGCKLIP VIQLTSVGVS VETLTALSAD RYRAIVNPM QMSTGALLRT CVKAMGIWV SVLLAVPEAV FSEVARISL DNSSFTACIP YPQDELHPK IHSVLIFLVY FLIPLAISI YYXIAKTLI KSAHNLPGY NEHTKKQMET RKRLAKIVLV FVGCFFICWF PNHILMYRS FNYNEIDPSL GHMIVTLVAR VLSFGNSCVN PFALYLLSES FRHENSQLC CGRKSQYERG TSYLLSSAV RMTSLKSNK NMVTNSVLIN GHSMKQEMAM</p>	Homo sapiens
199	3380	Neuromedin B Receptor	NP_002502.1	<p>atgagattgat ccatctctag gccacatgat tgtcacctta gttgcccggt tctcagttt tggcaattct tgtgtcaacc catttgctct ttacctactc agtgaaagct tcaggaggca tttcaacagc caactctgct gtgggaggaa gtccctatcaa gagagaggaa ccagctacct actcagctct tcagcgtgct gtagacatc tctgaaaagc aatgctaaga acatggtgac caattctgtt ttactaaatg ggcacagcat gaagcaggaa atggcaatgt gattttggcc attcaactca ctacctggag agaacttagt aa</p> <p>MPSKSLNLS VTGANESGS VPEGWERDEL PASDGTTEL VIRCVIPSLY LLIITVGLLG P NIMLVKIFIT NSAMRSVPNI FISNLAAGDL LLLLTCTVPVD ASRYFFDEWM FGKVGCKLIP VIQLTSVGVS VETLTALSAD RYRAIVNPM QMSTGALLRT CVKAMGIWV SVLLAVPEAV FSEVARISL DNSSFTACIP YPQDELHPK IHSVLIFLVY FLIPLAISI YYXIAKTLI KSAHNLPGY NEHTKKQMET RKRLAKIVLV FVGCFFICWF PNHILMYRS FNYNEIDPSL GHMIVTLVAR VLSFGNSCVN PFALYLLSES FRHENSQLC CGRKSQYERG TSYLLSSAV RMTSLKSNK NMVTNSVLIN GHSMKQEMAM</p>	Homo sapiens

200	3404	Neuropeptide NM_000910 Y Receptor Type 2	Homo sapiens
<p>tatccctatcc ctatccctagc ttttaacctg agccagagct cactacacag gtctctggct A atcagagtctg aatctgact actcaactta taaactgtct gcagacacct gttaggga ttgctgatac tggcgccagc gatctgaact cgttttaacct tctgttttgg agcacagggg ccgcccagct agaggagcac cagcgcaactg cgcgccagcc ctggcgaggg gtgcggaggga ttgtttctcg gtgcaatctc gctggcgctt ttccggggtt ctgcgagat ccagctcccc attctctgtc ctacacacac aaaaagaaac aactctcgat tggaaagtgt ggaattttct cagccccctac gagcgccggg gattctccag ccccgccct cctcccgcca gcctgaggtc tccttcgctc gcctgccttg ctaggggaccg cagtcctca gccgcagctg ggtctgtccg ccccgcttt gccctgcctt ttccccgggg cggatttgggt gaagtccggc tcaagtccag gaggtctgtc ttgcgccggc cagctctcgc ggaactgggg gtagagagc aaaggggagag attcgtggaa gggaaggag gtaggggtgg cgcaaacgcc cagagtatca aacttggggg tggcacagta ggtgacagca gcagctgcag gtggtggctg gggaccggcg agggggcgcc cctctgggta ggtctggct gagcggtt gcaagcccg gaggcgctg agagaccctg gacactgttc ctgctccctc gccaccaaaa ctctccctc agtccccctc cctgcaggac catcgccgc agcctctgca cctgttttct tgtgtttaag ggtggggtt gcccccctc ccacgtccc atctctgac ctcccactt caccggcca ccccgagct gagtgcggtg cccaggcg cttggcctga gagtcggca gcagaccgg cagcgccaac gcccagccg ctctgactgc tccggctgcc cgcccgccg gcgcgggctg tccctggacc taggagggga tggaaaccga cttgcccctg ggcaccttc agggccctct ccaggtccg tggctaata tcggacagac ggaactgcaca catctgttt ccgctctc gcaaaaacgc gaggtccagg tcagttgtag actctgtgc tgggtgcagg ccaagtggac ctgtactgaa aatgggtcca ataggtgcag aggtgatga gaaccagaca gtggaagaa tgaaggtgga acaatcggg ccacaaaca ctctagagg tgaactgtc ctgacccctg agccagact tatagatagt acaaagctga ttgaggtaca agttgtctc atattggct actgctccat catctgtct gggttaattg gcaactcctt ggtgatccat gtggtgatca aattcaagag catgcgcaca gtaaccaact ttttcattgc caatctggt gtggcagatc ttttggtgaa cactctgtgt ctaccgttca ctcttacct aaccttaatg ggggagtgga aatgggtcc tgtcctgtgc cacctgtgc cctatgccc gggcctggca gtacaaagtat ccacaaatcac cttgacagta attgccctgg accggcacag gtgcatcgtc taccacctag agagcaagat ctccaagcga atcagcttcc tgattattgg cttggccctgg ggcatacagt cctgctggc aagtccccctg gccatcttcc gggagtattc gctgattgag atcatcccg actttgagat tgtggcctgt actgaaaagt ggcctggcga ggagaagagc atctatggca ctgtctatag tcttcttcc ttgtgatct tgtatgttt gccctggggc attatatcat tttcctacac tgcgatttgg agtaaaattga agaaccatgt cagtccttgg gctgcaaat accactacca tcagcgaagg caaaaaacca ccaaaatgt ggtgtgtgtg gtggtgtgtg ttgcggtcag ctggctgct ctccatgctc tccagcttgc cgttgacatt gacagccagg tccctggacct gaaggagtag aaactcatct tccagtggt ccacatcacc gccatgtgt ccacttttgc caatccccct ctctatggct ggatgaacag caactacaga aaggctttcc tctcgccct ccgctgtgag cagcgggttg atgccattca ctctgaggtg tccgtgacat tcaaggctaa aaagaacctg gaggtcagaa agaacagtgg ccccaatgac tcttccacag aggtaccaca tgtctaagga agctgtgtgt tgaanaatga tggatgaatt ctgaccagag ctatgaatct ggttgatggc</p>			

ggtcacaag	tgaaaactga	tttcccat	taaagaagaa	gtggatctaa	atggaagcat				
ctgctgttta	attctctgaa	aactggctgg	gcagagcctg	tgtgaaaata	ctggaattca				
aagataaggc	acaaaaatgg	tttacttaac	agtgtgttgg	gtagtaggtt	gcattatgag				
taaaagcaga	gagaagtact	tttgattatt	ttcttggagt	gaagaaaact	tgacaagaa				
attggtatta	tcaaaagcatt	gttgagagac	ggtgggaaaa	taagttagct	ttcaaatcac				
gttaggacct	ggattgagga	ggtgtgcagt	tgcgtgtctc	ctgcttggct	tatgaaaaca				
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aaagtttctt	caactctgaa	tcaaaagctg	aaattctcag	aattacagga	aatgcaaaac				
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tatttcagaa	atgacaatgc	atagaggaaa	agtaatatgt	gcaagcctc	cgaagaggat				
ggttaagtta	agacttaggt	taccagtac	aggtttctgt	tttgtatgt	aggtagctct				
actgcctctc	cttaaaacca	acaaaggaaa	gagagactgg	cttgcaaaact	ttagaaggaa				
tggcttcgaa	taggtttcct	gggaggaaat	cagaggaaat	agacgtgct	gtctgctga				
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tagcggaaag	cttcaccaca	aggagacagg	agcagattat	ccataggcat	gcgctcctag				
tggcacgagt	ggcttgggtc	aggatcaaa	agtgaaagat	toggaaagta	gctatctgga				
gagagagaga	gattgtgttt	tattcgtgtc	ccatagcttt	ctctcctat	ccctatccta				
gcttttaacc	tgagccagag	ctcacacac	aggttctctgg	ctatcgagtc	tgaattctga				
ctactcaact	tataaactgt	ctgcagacac	ctgttaggga	aatgtctgat	catgggcggc				
aggatctgaa	ctcgctttac	cttctgtttt	ggagacacag	gaccgccag	ctagaggagc				
accagcgcac	tygcgccacg	ccctggggca	gggtgcggag	gattgttct	cggtgcaatc				
ctgctggcgc	ttttccgggg	ttctgcggcg	atccagctcc	ccatctctgc	tctcacacac				
acaaaagaaa	acaaactctg	attggagatt	gtggaaattt	ctcagccctt	acgagggcgc				
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tgctagggac	cgcagtcctc	cagccgcagc	tgggtctgtc	cgcgcgcct	tgcctctgc				
cttttcccg	ggcggatttg	gtgaagtcgg	cctcaagtc	aggaggtctg	tcttcgccc				
gccagctctc									
3404	Neuropeptide Y Receptor Type 2	NP_000901.1	NQTVEMKVE	QYGPQTTPRG	ELVPDEPEL	IDSTKLEIVQ	VLLIAYCSI	P	Homo sapiens
			ILLGVIGNSL	VIHWIKFKS	MRTVTNFFIA	NLAVADLLW	TLCLPFTLY	TLMEGWMGP	
			VLCFLVPYAQ	GLAVQVSTIT	LTVIALDRHR	CIVYHLESKI	SKRSFLIIG	LAWGISALLA	
			SPLAIFREYS	LIEIIPDFEI	VACTERWPGE	KSIIYFTVYS	LSSLILYVL	PLGISFSYF	
			RIWSKLNHV	SPGAANDHYH	QRQKTKML	ECVVVFVAVS	WLPLHAFQLA	VDIDSQVLDL	
			KEYKLIFTVE	HIAMCSTFA	NPLLYGMNS	NYRKAELSAF	RCEQRDLAIH	SEVSVTFKAK	
			KNLEVRKNSG	PNDSFTEATN	V				

202	3405	Neuropeptide Y Receptor Type 4	NP_005972	atgaacacct ctcaactctt ggcttggctg ctcccaaat ctccacaagg tgaacaacaga A	Homo sapiens
				agcaaaacccc tgggcacccc atacaacttc tctgaacatt gccaggatttc cgtggacgtg	
				atgggtcttca tegtcaacttc ctacagcatt gagactgtcg tgggggtcct gggtaacctc	
				tgcctgatgt gtgtgactgt gagcagaag gagaaagcca acgtgacca cctgcttatt	
				gccaaacctgg ccttctctga cttctctcatg tgcctcctct gccagcctgt gcccgccgtc	
				tacaccatca tggactactg gatctttgga gagacctctt gcaagatgtc ggccttcattc	
				cagtgcatgt cggtgacggt ctccatcctc tgcctcgtcc tcgtagccct ggagaggcat	
				cagctcatca tcaacccaac aggtggaag ccagcatct cacaggcta cctggggatt	
				gtgtcatctt gggtcattgc ctgtgtcctc tccctgccc tccctggcaa cagcatcctg	
				gagaatgtct tcacaagaa ccactccaag gctctggagt tccctggcaga taagggtggtc	
				tgtaccgagt cctggccact ggctcaccac cgaccactct acaccactt cctgtctctc	
				ttccagttact gctcccaact gggcttcatc ctggtctgtt atgcacgcat cctccggcgc	
				ctgcagaggg aggggcgctt gtttcaaa ggcacctaca gcttgcgagc tgggcacatg	
				aagcaggtca atgtgtgtct ggtggtgatg gtggtggcct ttgccgtgct ctggctgctc	
				ctgcattgtgt tcaacagcct ggaagactgg caccatgagg ccatccccat ctgccacggg	
				aacctcatct tcttagtgtg ccacttgctt gccatggcct ccacctgctt caacccattc	
				atctatggct ttctcaacac caacttcaag aaggagatca aggccttggt gctgacttgc	
				cagcagagcg cccctctgga ggagtcggag catctgcccc tgtccacagt acatacggaa	
				gtctccaaag ggtccctgag gctaagtggc aggtccaact ccatttaa	
203	3405	Neuropeptide Y Receptor Type 4	NP_005963.1	MNTSHLAL LPKSPOGNNR SKPLGPPYNF SEHQDSVDV MVFIVTSYSI ETVVGVLGNL P	Homo sapiens
				CLMCVTVRQK EKANVTNLLI ANLAFSDFLM CLLOPLTAV YTINDYWIEG ETLCNMSAFI	
				QCMSVTVSIL SILVVALERH QLIINPTGWL PSISQAYLGI VLIWVACVL SLPFLANSIL	
				ENVEFNHNSK ALEFLADKW CTESWPLAHH RTIYTFLLL FOYCLPLGFI LVCYARIYRR	
				LQRQGRVFEHK GTYSLRAGHM KQNVNVLVVM VVAFAVIMLP LHVENSLEDW HHEAIPICHG	
				NLI FLVCHLL AMASTCVNPF IYGFINTNFK KEIKALVLC QQSAPLEESE HFLSTVHTE	
				VSKGSLRLSG RSNPI	
204	3406	Neuropeptide Y Receptor Type 5	NP_006174	gaaaggctcat cggtaacaac tgacctgcca caaagttaga agaaggatt gattcaagaa A	Homo sapiens
				agactataat atggatttag agctcgacga gtattataac aagacacttg ccacagagaa	
				taatactgct gccactcgga attctgattt ccagctctgg gatgactata aaagcagtg	
				agatgactta cagtatttct tgattgggct ctatacattt gtaagtcttc tgggctttat	
				ggggaactca cttattttaa tggctctcat gaaaagcgt aatcagaaga ctacggtaaa	
				cttccataa ggcaatctgg cctttctga tatcttggtt gtctgtttt gctcaccttt	
				cacactgacg tctgtcttgg tggatcagtg gatgtttggc aaagtcattg gccattattat	
				gccttttctt caatgtgtgt cagttttggt ttcaacttta attttaat caattggccat	
				tgtcagggtat cataatgataa aacatcccat atcataaat ttaacagcaa accatggcta	
				ctttctgata gctactgtct ggacactagg ttttgccatc tgttctcccc ttcacagtgt	
				tcacagctct gtggaaactc aagaaacatt tggttcagca ttgctgagca gcaggtattt	
				atgtgttgag tcatggccat ctgattcata cagaattgcc ttactatct ctttattgct	
				agttcagtat attctgccc tagttttgct tactgttaagt catacaagt cttgcagaag	
				tataagctgt gtagttgcca acaaaagaaa cagacttgaa gaaaatgaga tgcataactt	
				aactcttcat ccatccaaaa agagtgggcc tcaggtgaaa ctctctggca gccataaatg	

Homo
sapiens

205 3406 Neuropéptide NP_006165.1 Y Receptor Type 5

gagttattca ttcatcaaaa aacacagaag aagatatagc aagaagacag catgtgtgtt
acctgtcca gaagacctt ctcaagaaa ccaatccaga atactccag aaaactttgg
ctctgtaaga agtcagctct ctatcatcag taagtccata ccagggtcc ccacttctt
tgagataaaa cctgaagaaa attcagatgt tcatgaattg agagtaaac gtctgtttac
aagaataaaa aagagatctc gaagtgttt ctacagactg accatactga tattagtatt
tgctgttagt tggatgccac tacacctttt ccattgtgga actgatttta atgacaatct
tatttcaaat aggcatttca agtttgtgta ttgcatittg catttgttgg gcatgatgc
ctgtgtctt aatccaattc tatatgggtt tcttaataat gggattaaag ctgatttagt
gtccctata cactgtcttc atatgtaata attctcactg ttt

MDLEDEYN KTLATENNTA ATRNSDFPV DDYKSSVDDL QYFLIGLYTF VSLGFMGNL P
LILMALMKR NQKTTVNFLLI GNLAFSDIIV VLFCSPTLT SVLLDQWMPG KVMCHIMPFL
QCVSVLVSTL ILISIAIVRY HMIKHPIINN ITANHGYFLI ATVWTLGFAI CSPLPVFHSI
VELQETFGSA LLSRYLCVE SWPDSYRIA FTISLLLVQY ILPLVCLTVS HTSVCRSISC
GLSNKENRLE ENEMINLTLH PSKSGPQVK LSGSHKWSYS FIKHRRRYS KKTACVLPAP
ERPSQENHSR ILPENFGSVR SQLSSSKFI PGVPTCFEIK PEENSDVHEL RVKRSVTRIK
KRSRSVFYRL TILILVEAVS WMLHLHFVV TDENDNLISN RHFKLVYCIC HLLGMMSCCL
NPILYGLFNN GIKADLVSLI HCLHM

Homo
sapiens

206 3408 Neurotensin NM_002531 Receptor Type 1

tcaagctcgc cccgcgcagc ccgagccggg ctggggcgctg tctcggggg cctgggggaa A
cgccggttt ggagatcgga ggcacctgga accgtggca agcgcgcagc cgggagacag
cccagaggaac caggggttct ggagctagga cccggaagct gggagtcggc aggagacgg
agcccgagc cccgagcccg gggcgccgc cctgggctcg cgttcacg tccccgctg
ggcccgctg gtcttcgcca cgcgcctcc cctgggctcg cgttcacg tccccgctg
agacgcgcc actcctgcc ggacttccag ccccgaggc gccggacaga gccgcggact
ccagcgcca ccatgcgct caacagctcc gcccgggaa ccccgggcac gccggcgcc
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aacgcttcgg gcaacgcgtc ggagcgctc ctggcgccac ccagcagcga gctggacgtg
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ggcacggtg gcaacacggt gacgcgttc acgctggcg ggaagaaagtc gctgcagagc
ctgcagagca cgggtgcatta ccacctggc agcctggcg tgcgcgacct gctcacctg
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ggcgacgcg gctgcgcgg ctactacttc ctgcgcgac cctgcaccta cgcacggcc
ctcaacgtg ccagcctgag tctggagcgc tacttgcca tctgccacc cttaaggcc
aagacctca tgcctcgaag ccgaccaag agttcatca ggcacatct gctgcctcg
gacctgtga cgggtcctat gctgttacc atgggcgagc agaaccgag cgcgcagcc
cagcacgcg ggggctggt gtgcacccc acctccaca ctgccacct caaggtcgtc
atacaggtca acacttcat gtccttata tccccatg tggctatct ggtcctgaac
acctatctg ccaacaagct gacctcatg gtagccagg cggccgagca gggccaagtg
tgcacggtc gggcgagca cagcacatc agcatggcca tcgagcctg cagggtccag
gacctgcgc acggcggtg cgtcctacgt gcagtggtca tgcctttgt ggtcgtctg
ctgcccacc acgtgcggc cctcatgtc tgcctatct cggatgagca gtagactccg
ttctctatg acttctacca ctacttctac atggtgacca acgcactctt ctacgtcagc

tccaccatca acccattcct gtacaaacctc gtctctgcca acttccgcca catcttctcg
gccacactgg cctgcctctg ccggtgtgtg cggcgagga ggaagaggcc agccttctcg
aggaaggccg acagcgtgc cagcaaccac accctctcca gcaatgccac ccgcgagacg
ctgtactagg ctgtgcgccc cggaaactgt ccaggaggag cctggccatg ggtccttgcc
ccgacagac agagcagccc ccaccggga gcttgcaggg gggtcagcca gaggccagcc
tgcactggag tctgagacct gggaaccccc cctccacccc cctaaacccat gtttctcatt
agtgtctccc gggcctgtcc ccaactcttc ccacccctc ccccatctcc tcttgaaag
ccagaacaag agagcgtcc tctccagat aggaaggg ccttaacaa ggagaaatta
gtgtgcgcca aaaggcagtt ttctttgttc taagactaat ggtggttcc agagaaggaa
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tctctgagc ctgcaccccc tctgtctagc tcggggagtc cagccccagt ccgcaggct
ccgtggcttt gggcctcacg tgcagacct cttcaggcct ggcaagctgg gggcccatcg
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cgccgatca gggcctggt ctccagcacc tgcccgagtg gccgtggcca ggtgggggtg
cgcatctcgt gtgctttgct tctagctgtg caggctgagg tctggagcca gggccagagc
tggtctcagg gtggggcctt gagaaggga atgtgggaca gggcgcatgg tgctgtgtct
ctgagtaaga tgcaggctcc caggaactca ggtctcaggt gagaaggagc ggtgtgtcca
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ctaagagaag acagctcccag gagaagctgg ccgggaccag ccaggagctg ggagccacag
gaagcaaaaag tcagcctttt cttcaaggga ttccctgtc tcagagcagc ctttgcccca
gggaaatggg ctctgggctg gctgcctgca ccggccatgt cgacccagga ccgggacacc
tggtcttggg ctgtgttcag ccactttgcc tctctggac tcagtttccc cgtctgagaa
atgagagtcg aatgctacag tatctcagc cgtctggatc tggctgttga gttgacgggt
tcttgaacc ccacaaaatc cctctccac cacaggaccc ttcggctcac caagaacggg
gcccaggga gtcaggccta ttcgtgcac ttcctgcca actttgccc cacaagcctg
gtcatcagcc aggcagcctt cccagtccc cccagcagc agggccacc aacccaggg aacagggcc
agcacagagg ggccttctc cccacagag ccccatgac atagtctgt ctgggaggaa
gagcttctg gccagccagg gatgtccaga ggtcgtgca gcccctatcc ctgctcagga
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ggtgtctga gagaggcag agtgatgcc ccactgccct agaccctcg tagacgtggg
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209 NP_000904.1 MEPLFPAPFW EVIYGSHLQG NLSLLSPNHS LLPPHLLINA SHGAFLPLGL KVTIVGLYLA P
 VCVGGLLGNC LVMYVILRHT KMKATNIYI FNALADTLV LLTLPFQGTDL ILLGFWPFNG
 ALCKTVIAID YNNMTSTFT LTAMSVDRYV AICHPIRALD VRTSSKAQAV NVAIWALASV
 VGVPAJMGs AQVEDEIEC LVEIPTQDY WGPVFAICIF LFSFIVFVLV ISVCYSLMIR
 RLRGVRLLSG SREKDRNLRR ITRLVLVVA VEVGCMTPVQ VFVLAQGLGV QPSSETAVAI
 IRECTALGYV NSCLNPILYA ELDENFKACF RKFCASALR RDVQVSDRVR SIAKDVALAC
 KTSETVPRPA

210 NM_000273 atgaccagg caggccggcg gggtcctggc acaccggagc cgcgtccgcg aacacagccc A
 atggcctccc cgcgcctagg gacottctgc tgccccacgc gggacgcagc cagcagctc
 gtgctgagct tccagccgcg ggccttccac gcgctctgcc tgggcagcgg cgggctccgc
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 cccctgctgc tggttctcgt ggcgaacccc atcctgttcc aagagacagt gactgcagt
 gctctttac ttaaggaag acaaggcatt tacacggaga acgagaggag gatgggagcc
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 caccatccc cactgatgcc ccataaaa cctgcttccc ggaaggtgtc tcaagtgggt
 ggcagactt ctgacgaagc cctgagcatg ctgtctgaag gtctgtatgc cagcacaatt
 gaaattcaca ctgcaagtga atcctgcaac aaaaatgagg gtgaccctgc tctcccaacc

211	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NP_000264.1	catggagacc tatgaagggg atgtgctggg gggtccagacc ccataatcct cagactcaac aattctgtt ctttagaact gtgttctcac cttcccaaca ctgcactgcc gaagtgtagc ggcccccaaa ccttgctctc atccaccagt agagcttctt cccgaaggcc ctttaggata ggagaaaggg ttcatgcaca cacgtgtgag aatggaagag cccctccag accactctac agctgctcta gccttagtg ccactaggaa gtttctgag gctggtgta agtaagtgt aaggtccaca tccttggga agtagttaaa taaaatagtt atgactg MTQAGRRGPG TPEPRRTQP MASPRLTGFC CPTDRDAATQL VLSFQPRAFH ALCLGSGGLR P LALGLLQLLP GRRPAGPGSP ATSPPASVRI LRAAAACDLI GCLGMVIRST VWLGFNFEVD SVSDMNHTEI WPAAFCVGSA MWIQLLYSAC FWLFCYAVD AYLVIIRRSAG LSTILLYHIM AWGLATLLCV EGAAMLYPS VSRCEGLDH AIPHYVTMYL PLLLVIVANP ILFQKTVTAV ASLLKGRQGI YTENERRMGA VIKIRFFKIM IVLIIICWLSN IINESLLFYL EMQTDINGGS LKPVRTNAKT TWFMGIINP AQGFLLSLAF YGWTGCSLGF QSPRKEIQWE SLTTSAAEGA HPSPIMPHEN PASGKVSQVG GQTSDEALSM LSEGSDASTI EIHTASESCN KNEGDPALPT HGDL	Homo sapiens
212	3544	UDP-glucose Receptor (KIAA0001)	NM_014879	gaacagtgtt acctggagc ctacaatgag aggtatttca aaatgagtga agcatgactc A tcacagatga aggcctagac gcaggatctt taatggaaaa acacttgggc cacttcaaga cgacaaacgc tcaactggca aaacacctc actgaaaaa gacctcatat tatgcaaaaa aaatcttaag aggcctctgc cttcagaagt tacaagatga tcaattcaac ctccacacag cctccagatg aatcctgctc tcagaacctc ctgatactac agcagatcat tccgtgctg tactgtatgg tcttcattgc gggaatccta ctcaatggag tgtcaggatg gatattctt tactgacca gctctaagag ttctatcctc tatctcaaga acattgttat tctgacttt gtgatgagcc tgaattttcc ttccaagatc cttggtgact caggccttgg tccctggcag ctgaacgtgt ttgtgtgcag ggtctctgcc gtgctcttct acgtcaacat gtacgtcagc attgtgttct ttgggctcat cagcttggac aggtattata aaattgtaaa gcctcttgg acttcttca tccagtcagt gagttacagc aaacttctgt cagtgtatgt atggatgctc atgctcctcc ttgctgttcc aaattattat ctcaccaacc agagtgttag ggaggttaca caataaaaat gtatagaact gaaaagtga ctgggacgga agtggcaca agcatcaaac tacatcttcg tggccatctt ctggattgtg ttcttttgt taatcgttt ctatactgct atcacaaga aatctttaa gtccacctt aagtcaagtc ggaattccac ttcggtcaaa aagaaatcta gccgcaacat attcagcat gtgttgtgt ttttgtctg tttgtacct taccatattg ccagaatccc ctacacaaag agtcagaccg aagctcata cagctgccag tcaaaaagaa tcttgcgga tatgaagaa ttcactctgc tactatctgc tgcaaatgta tgcttggacc ctattattta ttcttttcta tggcagccgt ttagggaat cttagtgaag aaattgcaca ttcattataa agctcagaat gacctagaca ttccagaat caaaagagga aatacaacac ttgaagcac agatacttg tgagttccta cctcttcca aagaaagacc acgtgtgcat gttgtcatct tcaattacat aacagaaatc aataagatat gtgcccctcat cataaataatc atctctagca ctgccatcca atttagttca ataaaaattca aatataagtt tccatgcttt ttgttaacat caaagaaaac ataccatca gtaatttctc taatactgac cttctattc tctattaata aaaaattaat acatacaatc attcaattct attatattaa aataagttaa agttataac cactagtctg gtacgaattt aaatagtaaa taaaacacaa cataatcaaa gacaactcac tcaggcatct tcttctcta aataccagaa	Homo sapiens

213	3544	UDP-glucose Receptor (K1AA0001)	NP_055694.1	<p> tctagtatgt aattgttttc aacactgtcc ttaaagacta acttgaaagc aggcacagtt tgatgaagg ctagagagct gtttgcaata aaaagtcagg ttttttccct gatttgaaga agcaggaaaa gctgacaccc agacaatcac ttaagaacc ccttattgat gtatttcacg gactgcaaa ggaagaggaa tattaattgt atacttagc agaaaatttt ttttttctga tagcactttg aggatattag atacatgcta aatatgtttt ctacaaagc ttacgtcatt taatgagcct ggggttctgg tgttagaata tttttaagta ggttttactg agagaaacta aatattggca tacgttatca gcaacttccc ctgttcaata gtatgggaaa aataagatga ctgggaaaaa gacacaccca caccgtagaa catatatata tctactggcg aatgggaaag gagaccattt tcttagaaag caataaaact tgattttttt aaatctaaaa ttacattaa tgagtgcata ataacacata aatgaaaaat tcacacatca catttttctg gaaaacagac ggattttact tctggagaca tggcatacgg ttactgactt atgagctacc aaaactaaat tctttctctg ctattaactg gctagaagac attcatctat ttttcaaatg ttctttcaaa acatttttat aagtaaatgt tgtatctatt tcatgcttta ctgtctatat actaataaag aaatgttta atactg </p>	<p> Homo sapiens </p>
214	3582	Oxytocin Receptor	NM_000916	<p> tggttaaggct ctgggaccaa cgctgggcga accagctccg ctccggaggg gtctgcgcg A ctggcctcgc cgcgcctcta gcggaccctg gcgatagtcg agcctcagcc ccaggcacag cgccgcatcc agacgcctc cgcgccgcga gcctgggagg cgctcctcgc tcgcctcctg taccatcca ggcaccagcc aggtcgcgc ttagtgcag cggcgaggcc atcccaactc gggccgggag gacctcagct tagcatcaca ttagtgcag cggcgaggcc atcccaactc gggccgggag cgacgcgtc actggggccg ttagtgcag cggcgaggcc atcccaactc gggccgggag gttcgcctgc gactcgggtg cagtggaaac cgctgaacat cccgaggaaac tggcacgcgtg ggggctctgg gcttctggcc ggttagaggat tcccgtctat ttgcagtggc tcagaggagg gtggaccacag cagatccgtc cgtggagtc cagaggagtg agccccgggc gccctacac cctccgacac gccggatccg gccagaccgc ccaagccgtg aaagggtcgc aaggccgggg cgcaaccgtg cgccagggt catggaggcc gcgctcgcag ccaactggag cgccgaggca gccaacgcca gcgcgcgcgc gcggggggcc gagggcaacc gcaccgcgcg acccccgcg cgcaacgagg cctgggcgcg cgtggagggtg gcggtgctgt gtctcactct gctcctggcg ctgagcggga acgcgtgtgt gctgctggcg ctgcgcacca cagccagaa cactcgcgc ctctctctct tcatgaagca cctaagcatc gccgacctgg tgggtggcagt gtttcaggtg ctgcccagct tgcgtggga catcaccttc cgcttctacg ggccccacct gctgtgcgc ctggtcaagt acttgcaggt ggtgggcatg ttgcctcca cctacctgct gctgctcatg tccctggacc gctgcctggc catctgccag ccgctgcgcg cgccaccgac cgctggcag tgcctgccac gtggctcggc tgcctgggtg ccagcgcgcg gcaggtgcac atctctctc tgcgcgaggt ggtgacgcg gtcttcgact gctgggcccgt cttcatccag ccctggggac ccaaggccta catcacatgg atcacgctag ctgtctacat cgtgccggtc </p>	<p> Homo sapiens </p>

atcgtgctcg ctacctgcta cggccttata agcttcaaga tctggcagaa cttgcgggctc
aagaccgctg cagcggcggc ggccgagcgg ccagaggcgg cggcggctgg cgatgggggg
cgctggccc tggcgcgtgt cagcagcgtc aagctcatct ccaaggccaa gatccgcacg
gtcaagatga ctttcatcat cgtgctggcc ttcatcgtgt gctggacgcc ttcttcttc
gtcagatgt ggagcgtctg ggatgccaac tgcgccaaag aagcctcggc cttcatcctc
gtcatgctcc tggccagcct caacagctgc tgcaacccct gcatctacat gctgttcacg
ggccacctct tccacgaact cgtgcagcgc ttctgtgct gctcggccag ctacctgaag
ggcagacgc tgggagagac gagtccagc aaaaagaga actcgtctc ctttgtctg
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cagggccagg gctgcagcct gaggctcagg ctgtgctggc ataagtgcct tgctcctagg
tgatggcgtg tgttgtgtg taagtacct atcagtttgt atccctccc tccctggggt
ggcttcagt gggtygagag tggcctccat gatggaagat gataggggac tcagccatca
gacaacccc tggcctccta cactacttc taccacctg aaccactgc tgcctgggc
agtgaagtggc ttgtttttc tctggactt gtaatttcac tccagtatat ttttactct
tcattctggg atattgtgaa aagcggtaaa tataggattg gtgaccaatt gggtcaggaa
gtccagtgt ctggacttgg ggtaaagcagt ggggttggga cctcagatgg gaagggtggt
gctaagatcc tctgacctc aagtgattt tgcctttaa ggaacaaatg ctggggtcct
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ggcgagtggt acctattaga acttgggtta aaaaatttta agaagctaatt gtttaagaag
catttggaa agaaaaagaa ataaatgtat ccagatagga aaagaagaag taaaactatt
tgcatgatgc acagtttgt atatagaaaa tccataggga ctcacacaca cacacaca
cacacacgca cacagctatt agaactaata agcaagttcc gcaaggttc aagatacaag
atcaatatat aaaaatgaat tgtatttctt tatactagca acaaacata tgaaaaagaa
gttaataat tccatttata taccatcag aaagaataaa ataggaaatca acttaacaaa
acaagtgcga gactgaaaac tacaaaattg gaaagaattt aaagaaggct taaataaaatg
gaaagacatc ctgtgttcat ggtcagact tagtattgtt aagatggcaa tactatccta
actgacatgc agattcagtg caatccttat gaaaatcata gctggctttt ttacagaaat
tgataagcta gtccaaaat tcataaagaa atgcaaggga ccagatatac caataagcc
ttgaaaaaga acaaagttgg tggattcaca cttcctgatt tcataattta cgataaaggt
aatcagctca gtgtgttact ggtttaagga tagacatacg gagcagaata aagagtacag
atatgaacac ttatacttac ggtcaattga tttttgacaa ggttcccaag acaattcaat
agagaaagga gagtcttttc acaaaatggc accgagacaa tgatatgcaa gtgcaaaaga
atgaggttgg acctttact acactatgtg caaaaatcaa ctcaaaacgc atccaagatc
taaatataag agctgaaact ataaaatctt agaaagaac ataggcatag atctttgtaa
ccttgaatta ggcagtgggt tcttagatat gataccaag acacaagcaa ccaatggaaa
aataggtaaa ttggacttaa tcaagatttg aagcttttgt gattgaaaag accctatcaa
gaaggtgaaa agataaacctg cagaatggga gaaaatattt gcgagtata tatatgataa
ggggcttcta tctggaatat ataaataact cttataacac acaataaagg agaaaaataa
atcaatttaa aaaatgggtt aacggtttga atagacttgc ctcaaaagaa gatatgcaaa
tggctactaa gcaatgaaa aatactcaac attattattc attagggaaa tgcaagtcaa
aatcaaatg agattccagt ttacaatcac taggatggct acaataaaaa gatggacaag

Homo
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NP_000907.1

Oxytocin
Receptor

3582

215

aacgagtgct ggtgaggatg tagagaaact ggtagaaatt taaattgttg gtgggaatgt
aaatggtgca cctgctttga aaacagttt ggcagttacc caaaaaagta aacgtagagt
gaccatatga ccagggaatg ccactcctag gtatttacc agagaaaatg aaaaagtaca
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aatggaacat tattagactc taaaaagaaa tgaagtactc acacatgcca caacatggat
gagccttgaa aacttgctaa gtgaaagaag ccaggtgcaa agcccacat attgtctgac
tgcaattgaaa tgcaatgtct aaaatggagc aatctatata gagtgaatat agattagcgt
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tttcgggtga tgaataatgt cgaataatgt ggtgattgtg cagcattttg agaattgtact
aaaaacaaat gaactttaaa aaataaaaat aaacaaa

MEGALAANWS AEAANASAP PGAENRTAG PPRNEALAR VEVAVLCIL LLALSGNACV P
LLALRTTRQK HSRLEFFMKH LSIADLVAV FQVLPQLLWD ITRFYGPDL ICRLVKYLQV
VGMFASTYLL LLMSLDRCIA ICQPLRSRRTDRLAVLAT WLGCLVASAP QVHIFSLREV
ADGVFDCWAV FIQPWGPKAY ITWITLAVYI VPIVIVLATCY GLISFKIWQN LRLKTAATAA
AEAPEGAAG DGRVALARV SSVKLISKAK IRTVMTFII VLAIVCWTP FFFVQMWVSVW
DANAPKEASA FIIVMLLASL NSCCNPWIYM LFTGHLFHEL VQRFLLCCSAS YLKGRRLGCT
SASKNSNSS FVLSHRSSSQ RSCSQPSTA

Homo
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NM_002564

Purinergic
Receptor
P2Y, G-
protein
coupled, 2
(P2RY2)

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cggcacgagg caccgcaga ggaagaagcgc agcgcagtg gcagaggagc cccttgtggc A
agcagcacta cctgccaga aaaaatgctg aggtgggagc tggccccagg cctggggacc
tgtttttctt gtttccgca gaggttccctg cagcccggtc caggtccagg cgtgtgcat
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gttgcttga cccctgctc tacttctctg ctgggagag gctcgtacgc ttggcccgag
atgccaagcc acctactgc ccagccctg ccaccccgcc tggccgagc ttggccctgc
gcagatccga cagaactgac atgcagagga taggagatgt gttggggcgc agtgaggact
tcaggcgagc agagtccacg ccggctggtg gcgagaacac taaggacatt cggctgtagg

Homo
sapiens

P

NP_002555.1

Purinerigic
Receptor
P2Y, G-
protein
coupled, 2
(P2RY2)

3589

217

agcagaacac ttcagcctgt gcaggtttat attggaagc tgtagaggac caggacttgt
gcagacgcca cagtctccc agatatggac catcagtgac tcatgtgga tgaccccatg
ctccgtcatt tgacagggc tcaggataatt cactctgtg tccagagtca actgttccca
taacccttag tcatcgtttg tgtgtataag ttgggggaat taagtttcaa gaaaggcaag
agctcaaggt caatgacac cctggcctga ctcccataga agtagctggc tgtactgcca
aggtacacat gttggagtc agcctaata agtcaaatgg agaaacaggc ccagagagga
aggtggctta ccaagatcac ataccagagt ctggagctga gctaccctggg gtgggggcca
agtcacaggt tggccagaaa accctggtta gtaatgagg ctgagtttg acagtgtct
ggaatggact ggtgcccag gtggacttag ctctgaggag taccceagc ccaagagatg
aacatctggg gactaatatc atagacccat ctggaggctc ccatgggcta ggagcagtgt
gaggctgtaa cttatactaa aggttgtgtt gcctgctaaa aaaa
MAADLGPWND TINGTWGDE LGYRCRFNED FKYVLLPVSY GVVCVLGLCL NAVALYIFLC
RLKTNWASTT YMFHLAVSDA LYAASLPLV YYYARGDHP FSTVLCKLVR FLFTNLYCS
ILFLTCISVH RCLGVLRLR SLRWGRARYA RRVAGAVWVL VLACQAPVLY FVTTARGGR
VTCHDTSAPF LFSREVAISS VMLGLLFAVP FAVILVCYVL MARRLLKPAY GTSGGLPRAK
RKSVRTIAV LAVEALCFEP FHVTRTLYS FRSLDLSCHT LNAINMAYKV TRPLASANSC
LDPVLYFLAG QRLVRFARDA KPPTGSPAT PARRRLGLRR SDRTDMQRIG DVLGSSSEDFR
RTESTPAGSE NTKDIRL

Homo
sapiens

A

NM_002563

Purinerigic
Receptor
P2Y1

3595

218

ccccctccc gggggatcca gttgcctgc tcccttcgc tccgtggctt ttccgatgtc
tgctgcgcc ctggcgccg ctgcctctc gccgcctct accctcggg gccgcgcct
aagtcgagga ggagagaatg accgaggtgc tgtggccggc tgtcccaac gggacggagc
ctgccttcc ggcggctcc ggttcgtct gggggaaacg caggtgcgc tccactgcg
ccgtctctc gtcgttcaaa tgcgcctga ccaagacggg ctccagttt tactacctg
cggctgtcta catcttgta ttcatcatg gcttcctgg caacagcgtg gccatctgga
tgttcgtctt ccacatgaag ccttgagcg gcactctcg gtacatgtt aatttgctc
tgcccgact ctgtacgtg ctgactctg cagccctgat ctctactac ttcaataaaa
cagactggat ctccgggat gccatgtga aactgcagag gtccatctt catgtgaacc
tctatggcag catcttgtt ctgacatgca tcagtgcga ccggtacagc ggtgtggtg
acccctcaa gtccctggc cggctcaaaa agaagaatg gatctgtat agcgtgctg
tgtggtcat tgggtggtg gcgactctc ccactctct ctactcaggt accggggtc
gcaaaaaca accatcac tgttacgaca ccactcaga cgagtacctg cgaagtatt
tcatctacag catgtgcag accgtggcca tgttctgtg ccccttggtg ctgattctg
gctgttacg attaatgtg agagcttga tttaaaaaa tctggacaac tctcctctga
ggagaaaac gatttacctg gtaactatg gggcccggt tgaatttcag accccagcaa
cttcccatg gatgaaaac atgaactga cgtatcaggt gacaagaggt ctagcaagtc
tgtgtgctt caatgacag gtttatgcca cgtatcaggt gacaagaggt ctagcaagtc
tcaacagttg tgggaccc attctctatt tcttgccgg agatactttc agaaggagac
tctcccgag cacaaggaa gcttctagaa gaagtgggc aaatttgcaa tccaagagt
aagacatgac cctcaatatt ttacctgagt tcaagcagaa tggagatata agcctgtgaa
ggcacaagaa tctccaaa cctctctgtt gtaatatggt aggatgctta acagaatcaa
gtacttttcc cctcttaac ttcttagttt agaaaaaat caaaccaaga aaatagttag

219	3595	Purinerigic Receptor P2Y1	NP_002554.1	<p> ttaaataaat aatagaagta gaaatgcca catccacact tagcttgctt gggtttgctt tcacagtctc tcttcctctt gactagaagt atgtataata aaacaatact acctagttaa acatttactt tctcttttgc ctttaaaatg tgcaggcttt tctgtttaaa gtgtgtgtgc acatgagtac tggggctgtt ttgatatta gtaattcttc taagaaaaat agccccctgc aacttgagtt tgtggtttat ctgacctta ttgttttttt aaatccaca gtaggataaa aaaatctata ttctcagaaa tatctagcat ggtataaac aaacactaa actcatcagt tcatccggca tcagatcaat ggtctctga gcggggtgtt ttttccagt tcttataagc atagatgata gtgactgag ttcttttagg gcattgaata gacaagtaaa gctaataaat ttaaagcct gaaaagtgt ttgtttccag ttatttcttg aaaaggtctc attatatatt gggtgctaaa tgtttgatgg gaaaagcctg catatattat cgtactggtt aaatgcattc aaaataatta agtgcattg attttcttg taaacacct gagctctctt agacatcttg tgataaagag catttacttg cccactgct gtgcaatgcc ttaggacttt gtttgtgttc caggacaagt gttcactcac atctgtaaaa acaattttta gaattgcaaa taaattacag accaaagatt gagtaaagtc aaataactgt tagtaatttg aaggatattg gacaggagga cagtatttca gaaaaggaga ggttgacagt catccacaag gcatagctc caagtatact ctcaaatgta tgaagcaact ggggtgggca gaagacattt tagaatgagg gcctttagtt taaattaaaag tcatggtgga gaagactctt gcttccacca agtgtttgaa aacacaaaat acgatataaa aaaaaaaa aaaa </p>	Homo sapiens
220	3596	Purinerigic Receptor P2Y5	NM_005767	<p> ILPEFKQNGD TSL </p> <p> ctgatgaaag tgcttccaaa ctgaaaaattg gacgtgcctt tacgatggta agcgttaaca A gctccccactg cttctataat gactccttta agtacacttt gtatgggtgc atgttcagca tggtgtttgt gcttgggta gtatccaatt gtgttgccat atacatttc atctgcgtcc tcaaaagtccg aaatgaaact acaacttaca tgattaaact ggcaatgtca gacttgcttt ttgtttttac ttacccttc aggtattttt acttcacaa acggaattgg ccatttggag atttactttg taagatttct gtgatgctgt ttataccaa catgtacgga agcattctgt tcttaacctg tattagtga gatcgatttc tggcaattgt ctaccattt agtcaaaaga ctctaagaac caaaagaaat gcaagattg ttgcaactgg cgtgtggtta actgtgatcg gaggaaagtgc accgcctgt ttgtttcagt ctaccactc tcagggttaac aatgcctcag aagcctgctt tgaaaaattt ccagaagcca catggaaaac atactctca aggatgttaa tttctatcga atagtggga ttttttatt ctctaatttt aaatgtaact tgttctagta tggtgctaaa aactttaacc aaaccagtta cattaagtag aagcaaaaa aacaaaaacta aggtttttaa atgatatttt gtacatttga tcataattctg ttctgttttt gtcccttaca atatcaatct tattttatat tctcttgta gaacacaaac atttgttaat tgcctcagtag tggcagcagt agggacaatg taccacatca ctctctgtat tgctgtttcc aactgttgtt ttgaccctat agtttactac ttacatcgg ttaacattca gaattcaata aaaaatgaaa </p>	Homo sapiens

Homo
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221 3596 Purinergic NP_005758.1
Receptor
P2Y5
actggtctgt caggagaagt gacttcagat tctctgaagt tcatggtgca gagaatttta
ttcagcataa cctacagacc ttaaaaagta agatatattga caatgaatct gctgcctgaa
ataaaacat taggactcac tgggacagaa ctttcaag
MSDLLFVFTL YNDFSEKYL GCMFSMVFV GLVSNCAIY IFICVLKVRN ETTTMINLA P
PFKSTLRTK PPRIFYFTTR NWPFGDLCK ISVMLFYTNM YGSILFLTCI SVDRFLAIVY
LSRIVIFIEI VGFIFLIIN WLTSSMVLK LTKPVTLSRS KINKTKVLKM IFVHLIIFCF
CFVPYNINLI IYSLVRTQTF VNCSSVAAR TMYPITLCL VSNCCFPIV YYFTSDTIQN
SIRKKNWSVR RSDFRFSEVH GAENFIQHNL QTLKSKIFDN ESAA

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222 3597 Purinergic NM_004154
Receptor
P2Y6
aaggacagag gaggggacct tctgttcagc tggctgggag cagagggtgc ttgtctttt A
cggaagaact ggttctgtgg aatttgtgt tatttcccat caaggatcaa ggacctgctc
tggggctacc tcaggggccc acaggatgag gggctggttt tcagatgagt ttctgcttg
cctgtcatct ggatagtgtc taaaaatttg caaactgctc tctgtcagt gcttgctca
ttcttcata cactcctgat atgtctctca gtttccctcat ctgtgcctc tccagacttc
tgccagaaca ttgcacgca cagtttcagg cacagaactg actggcagca ggggctgctc
cacgagtggg aattgtctcc agcatttcac ggactgcaag cgaggcactt gtaactctt
ggataaaca acccttgcca gaagaacctat ggctttggaa ggcggagtgc aggtgagga
gatgggtgcg gtcctcagtg agccccctgc tccctgaaca taggaacct accctggcag
ccatgggaatg ggacaatggc acaggccagg cctctgggctt gccaccacc acctgtgtct
accgcgagaa cttcaagcaa ctgctgctgc cactctgtga ttccggcgtg ctggcggctg
gctgcccgt gaacatctgt gtcattacc agatctgcac gtcccgccg gccctgacct
gcacggccgt gtacacctca aacctgtctc tggctgacct gctatatgac tgtccctgc
ccctgtctcat ctacaactat gcccagggtg atcactggcc ctttggcgac ttccgctgcc
gcctggtccg cttcctcttc tatgccaacc tgcacggcag cctcctcttc ctcacctgca
tcagcttcca gcgtacctg ggcatctgcc acccgctggc cccctggcac aaagtgggg
gcgcgcgggc tgcctggcta gtgtgtgtag ccgtgtggct ggccgtgaca acccagtgcc
tgccacagc catcttcgt gccacaggca tccagcgtaa ccgcactgtc tgctatgacc
tcagccccgc tgccttgccc accactata tgcctatgg catggctctc actgtcatcg
gttctctgt gcccttgct gccctgctgg cctgtactg tctcctggcc tgcgcctgt
gcgcacagga tggcccgcca gagcctgtgg cccaggagcg gcgtggcaag gcggcccgca
tggccgtggt ggtggctgct gcccttgcca tcagcttctc gccttttcc atcaccaaga
cagcctacct ggcagtgcgc tcgacgcgg gcgtccctct cactgtattg gaggcctttg
cagcggccta caaaggcaag cggccgtttt ccagtgccaa cagcgtgtg gccccatcc
tcttctactt caccagaaag aagtccgcc ggcgaccaca tgagctccta cagaaactca
cagccaaatg gcagaggcag ggtgcgtgag tctccaggt cctgggcagc ctctatat
gccatttgtt ccggggcacc aggagcccca ccaaccccaa accatgcgga gaattagagt
tcagctcagc tgggcatgga gttaatatcc ctacacaggc ccagaagctc accaaaaact
atttcttcag ccccttctct ggcacagacc ctgtgggcat ggagatggac agacctgggc
ctggctcttg agagggtcca gtcagccatg gagagctggg gaaaccacat taagtgtctc
acaaaaatac agtgtgacct gtactgtcaa aa

223	3597	Purinergic Receptor P2Y6	NP_004145.1	MEMDNGTGQA LGLPPTTCVY RENFKQLLLP PVYSAVLAAG LPLNICVITQ ICTSRRALTR P	Homo sapiens
				TAVYTLNLAL ADLLYACSLP LLIYNYAQGD HWPFQDFACR LVRFLEFANL HGSILFLTCI	
				SFQRYLGICH PLAPWHKRG RRAAWLVCVA WLAVTTQCL PTAIFATGI QNRNRTVCYDL	
				SPPALATHYM PYGMALTVIG FLPLFAALIA CYCLACRLC RQDPAEPVA QERRGKAARM	
				AVVAAAFAI SFLPFHITKT AYLAVRSTPG VPCTVLEAFA AAYKGTREFA SANSVLDPIL	
				FYFTQKKFRR RPHELLQKLT AKWQRQGR	
224	3599	G Protein- Coupled Receptor 23 (GPR23)	NM_005296	cctaccgggc catagtggtca gagtgggtgaa cccctgcagc cagcaggcct cctgaaaaa A	Homo sapiens
				aagtccatgg gtgacagaag atctcatgac ttccaattcc aagattcaaa ttcaagcctc	
				agaccagggt tgggcaatgc tactgccaat aatacttgca ttgttgatga ttccctcaag	
				tataatctca atgggtcgtg ctacagtggt ttattcatct tgggtctgat aaccaacagt	
				gtctctctgt ttgtctctg ttccgcagtg aaaaatgagaa gtgagactgc tatttttacc	
				accaatctag ctgtctctga ttgtcttttt gtctgtacac tacttttaa aatattttac	
				aacttcaacc gccactggcc ttttgggtgac accctctgca agatctctgg aactgcattc	
				cttaccaaaca tctatgggag catgctcttt ctacacctga ttagtgtgga tcgtttccctg	
				gccattgtct atccttttcg atctcgtact attaggacta ggaggaaatc tgccattgtg	
				tggtctgggt tctggatcct agtctcagtt ggcgggtattt cagcctcttt gttttccacc	
				actaatgtca acaatgcaac caccacctgc tttgaaaggct tctccaaacg tgctcgggag	
				acttatttat ccaagatcac aatattttat gaagtgttg ggtttatcat tcctctaata	
				ttgaatgtct ctgtctcttc tglggtgctg agaactctgc gcaagcctgc tactctgtct	
				caaatgtgga ccaataagaa aaaagtactg aaaatgatca cagtacatat ggcagtcttt	
				gtggtatgct ttgtacccta caactctgtc ctctcttgtt atgccctgggt gcgctcccaa	
				gctattacta attgcttttt ggaaagattt gcaaaagatca tgtaccctaat cactttgtgc	
				cttgcaactc tgaactgttg ttttgacctt ttcatctatt acttcacctt tgaatccttt	
				cagaagtctt tctacatcaa tgcccacatc agaatggagt ccctgtttta gactgaaaca	
				cctttgacca caaagccttc ccttccagct attcaagagg aagtgaagtga tcaaacaca	
				aataatgggt gtgaattaat gctagaatcc accttttagg tatgagaaat gtgttcagggt	
				ccagatatgg ttctcctat aatttttctt atgctataaa ctaaaagattt gaagctaatg	
				atactgagaa taatgcacca aatccagtca gatacatctg ttggaaggta tactgtagag	
				tttttattgc tgttttgttc agtaattata ggtcaaatct aattacaaca accaagatgg	
				attgccaac tcttctgctt ggttggaatt tcatgtatc gcattatcca ggtggctagt	
				ggcatttgat aatatagaga tgactttgaa actttcaaaa aggtattttct attccaatga	
				tatttggtaa ttaggttggg cctataaata tagaacaatc tcagggtattt ttaaaaaatt	
				gtgttactac tgatatatgc tagtttttatt ttattttttt ggactgtcat tgagttttatt	
				ttagcacaag aatattttta gcctaacatt attaataaga aatgtgtcaa atttttaaca	
				ttggtaaaat atgttatgtg cattttgaaa acagaaaaa aattgcgttg gcatgtacgt	
				gggtggggaag aaaaagaaaa ttaacaggat ttacacaaat ataataacca gcagtgtgag	
				tttaaaaaac ttcgtttgtt ttacacccaa ttaaaatttt catgtcaaac ttcaaaagcca	
				gaaagctgct aaatacgtgt ctggcaggta aaagctggaa aattacttaa aacaggaaag	
				tgtcaataaa aaactttgag caacaccaac atattttttc ttaaaaatgtc acgttatctt	
				catttttggga aactaggttc tataaaaatat ttatctctcc ttgttatactt tggagcacag	
				cacagccaga aaggggctgc atttgtgccc aggtcaggag caaattgaaa aaaaaataa	

225	3599	G Protein- Coupled Receptor 23 (GPR23)	NP_005287.1	agtaatacta aaaaatcaaa ctataaaccc aaaaacattta ttaaaacctg aattaatcct ttttggagg agtagtagg atataaac tgaaaaatact tattctttct tatcgaattt tggagcctaa tatagccagg agctgctgaa tttgtgcccc tggattggaa ccaataaaaa aaaaaaaaa aaatttctt MGDRRFIDFQ FQDSNSSLR RLGNNATANNIT CIVDDSFKNV LAGAVYSVVF ILGLITNSVS P LFVFCFRMKM RSETAIFITN LAVSDLLFVC TLPEKIFYNF NRHPWFGDTL CKISGTAFLT NIYGSMLFLT CISVDRELA VYFPRSRITR TRNSAIVCA GWILVLSGG ISASLFSFTN VNNATTTCFE GFSKRVKTY LSKITIFIEV VGFIPLILN VSCSSVVLRT LRKPATLSQI GTNKKKVLXM ITVHMAFVV CFVPYNSVLF LYALVRSQAI TNCFLERFAK IMYPITLCLA TLNCCFDFFI YYFTLESFQK SFYINAHIRM ESLEKTTETPL TTKPSLPAIQ EEVSDQTTNN GGELMLESTF	Homo sapiens
226	3638	Parathyroid Hormone Receptor 2 (PTH2)	NM_005048	ggccgggtggc ccgggcccga ccacccagc tgcgctgctg tactggccac agtttgctc A tgggccagcc agtttgccaa cttggaagct tctcccgccg tctggaggag ggtccctgct tcttctctaca gccgttccgg gcatggccgg gctggggggc tgcctccacg tctgggggtg gctaagtctc gccagctgcc tcttgcccg agccagctg gattctgatg gcaccattac tatagaggag cagattgtcc ttgtgctgaa agcgaagaat caatgtgaac tcaacatcac agctcaactc caggaggagg aagtaattg tttccctgaa tgggatggac tcatttgggtg gccagagga acagtggga aaatatcgcc tgttccatgc cctccttata tttatgactt caaccataaa ggagtgtctt tccgacactg taaccccaat ggaacatggg attttatgca cagcttaaat aaaacatggg ccaattattc agactgtcct gcgtttctgc agccagatat cagcatagga aagcaagaat tctttgaacg cctctatgta atgtataccg ttggctactc catctctttt ggttcccttg cbtgggctat tctcatcatt ggttacttca gacgattgca ttgcactagg aactatatec acatgcactt atttgtgtct ttcattgctga gagctacaag catctttgtc aaagacagag tagtccatgc tcacatagga gtaaaaggagc tggagtccct aataatgcag gatgaccac aaaaattccat tgaggcaact tctgtggaca aatcacataa tatcgggtgc agattgtctg ttgtgatgtt tatttacttc ctggctacaa attattattg gatcctgggtg gaaggtctct acctgcataa tctcatcttt gtggctttct tttcggacac caataacctg tggggcttca tcttgatagg ctgggggttt ccagcagcat ttgttgcagc atgggctgtg gcacagcaa cctggctga tgcgaggtgc tgggaactta gtgctggaga catcaagtgg atttatcaag caccgatctt agcagctatt gggctgaatt ttatttctgtt tctgaatacg gttagagttc tagtaccac aaatctggag accaatgcag ttgggcatga cacaaggag caatacagga aactggccaa atcgacactg gtccctggctc tagtctttgg agtgcattac atcgtgttcc tatgctgccc tcaactcttc actgggctcg ggtgggagat ccgcatgcac tgtgagctct tcttcaactc ttttcagggt tcttttgtgt ctatcatcta ctgctactgc aatggagagg ttccaggcaga ggtgaagaag atgtggagtc ggtggaatct ctcgtggac tggaaaagga caccgccatg tggcagccgc agatgcggct cagtgcctcac caccgtgacg cacagacca gcagccagtc acaggtggcg gccagcacac gcatgggtgct tatctctggc aaagctgcca agatcgccag cagacagcct gcagccaca tcactttacc tggctatgtc tggagtaact cagagcagga ctgcttccca cactcttcc acgaggagac caaggaagat agtgggaggc agggagatga tatctaatg gagaagcctt ccaggcctat ggaatctaac ccagacactg aaggatgcca aggagaaact gaggatgttc tctgaatgga	Homo sapiens

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227 3638 Parathyroid Hormone Receptor 2 (PTHr2) NP_005039.1
 MAGLGASLHV WGWLMLGSL LARAQLDSG TITIEQIVL VLKAKVQCEL NITAQLQEGE P
 GNCPEWDGL ICWPRGTGK ISAVPCPPYI YDFNHKGVAE RHCNPNGTWD FMHSLNKTWA
 NYSDCLRFLO PDISIGKQEF FERLYVMYTV GYSISFGSLA VAILIIGYFR RLHCTRNYYIH
 MHLFVSEMLR ATSFIVKDRV VHAHIGVKEL ESLIMQDDPQ NSIEATSVDK SQYIGCKIAV
 VMFIYFLATN YWILVEGLY LHNLI FVAFF SDTKYLWGF I LGWGFPAF VAAWAVARAT
 LADARCWELS AGDIKWIYA PILAAIGLNF ILFLNTRVL ATKIWETNAV GHDRKQYRK
 LAKSTLVVL VFGVHYIVFV CLPHSFTGLG WEIRMHCELF FNSFQGFVS IICYCNGEV
 QAEVKKMSR WNLSDWKRT PFGSRRCS VLTIVTHSTS SQSQVAASR MVLISGKA
 IASRQPD SHI TLPGYVWSN EQDCLPHSEH EETKEDSGRQ GDDILMEKPS RPNESNPDTE
 GCQGETEDVL

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228 3640 Parathyroid Hormone Receptor 1 (PTHr1) NM_000316
 CGGAGGGACG CGGCCCTAGG CGGTGGCGAT GGGGACCGCC CGGATCGCAC CGGCCCTGGC A
 GCTCCTGCTC TGCTGCCCCG TGCTCAGCTC CGCGTACGCG CTGGTGGATG CAGATGACGT
 CATGACTAAA GAGGAACAGA TCTTCCTGCT GCACCGTGCT CAGGCCAGT GCAGAAAACG
 GCTCAAGGAG GTCTGCGAGA GGCAGCCAG CATAATGGAA TCAGACAAGG GATGGACATC
 TGCGTCCACA TCAGGGAAGC CCAGGAAAGA TAAGGCATCT GGGAGCTCT ACCCTGAGTC
 TGAGGAGGAC AAGGAGGCAC CCACTGGCAG CAGGTACCGA GGGCGCCCT GTCTGCCGA
 ATGGGACCAC ATCTGTGCT GGCCTGCGG GGCACCAAGT GAGGTGGTGG CTGTGCCCTG
 TCCGGACTAC ATTTATGACT TCAATCACA AGGCCATGCC TACCAGCTGT GTGACCGCAA
 TGCGAGCTGG GAGTGGTGC CTGGGCACA GAGGACGTGG GCCAACTACA CGAGTGTGT
 CAAATTCTC ACCAATGAGA CTCGTGAACG GAGGTGTGTT GACCGCTGG GCATGATTGA
 CACCGTGGC TACTCCGTGT CCGTGGCTC CTCACCGTA GTGTGCTCA TCGTGGCTA
 CTTTAGCGG CTGCACGTGA CGCGCAACTA CATCCACATG CACTGTTC TGTCCCTCAT
 GCTGCGCGCC GTGAGCATCT TCGTCAAGGA CGCTGTGCTC TACTCTGGCG CCACGCTTGA
 TGAGGCTGAG CGCTCACCG AGGAGGAGCT GCGCGCATC GCCAGGCG CCGCGCGCC
 TGCCACCGCC GCTGCCGCTG ACGCGGCTG GAGGTGGCTG GTGACCTCT TCTTTACTT
 CCTGGCCACC AACTACTACT GGATTCTGGT GGAGGGGCTG TACCTGCACA GCTCATCTT

229	3640	Parathyroid Hormone Receptor 1 (PTHRI)	NP_000307.1	<p> catggccttc ttctcagaga agaagtacct gtggggcttc acagtcctcg gctggggtct gcccgtgtc ttctgtgtg ttgtgggtcag tgtcagagct accctggcca acaccgggtg ctgggacttg agctccggga acaaaaagtg gatcatccag gtgcccaccc agctcgggga tgtgtcaac ttcatcctct tcatcaatat cgtccgggtg ctcgccacca agctcgggga gaccaacgcc ggcgggtgtg acacacggga gcagtaccgg aagctgtcca aatccacgct ggtgtctatg cccctctttg gcgtccacta catgtcttc atggccacac catacacga ggtctcagg agcgtctggc aagtccagat gcactatgag atgtcttcca actccttcca gggattttt gtgcgaatca tatactgttt ctgcaatggc gaggtacaag ctgagatcaa gaaatcttgg agcgtctgga cactggcact ggacttcaag cgaaggcac gcagcgggag cagcagctat agctacggcc ccatggtgtc ccacacaagt gtgaccaatg tcggcccccg tgtgggactc ggctggccc tcagccccc cctactgcc actgccacca ccaacggcca ccctcagctg cctggccatg ccaagccagg gacccacagc ctggagaccc tcgagaccac accacctgcc atggctgtc ccaaggacga tgggttcttc aacggctcct gctcaggcct ggacgaggag gcctctggc ctgagcggcc acctgccctg ctacaggaag agtgggagac agtcatgtga ccaggcgtg ggggctggac ctgctgacat agtggatgga cagatggacc aaaagatggg tgggtgaatg atttccact cagggcctgg ggccaagagg aaaaacaggg aaaaaagaa aaaaaaaga aaaaggaa </p>	Homo sapiens
230	3732	PACAP Receptor Type 1	NM_001118	<p> MGTARIAPGL ALLJCCPVL S AYALVDADD VMTKEEQIFL LHRAQAQCEK RIKEVLQRP A SIMESDKGWT SASTSGKPRK DKASGKLYPE SEEDKEAPTG SRYGRPCLP EWDHILCWPL GARGEVAVP CPDIYDFNH KGHAYRRCDR NGSWELVPGH NRTWANYSEC VKFLTNETRE REVFDRLGMI YTVGYSVSLA SLTVAVLILA YFRHLHCTRN YTHMLFLSF MLRAVSIFVK DAVLYSGATL DEARLTHEE LRAIAQAPP PATAAAGYAG CRVAVTFFLY FLATNYIWL VEGLYLHSLI FMAFFSEKKY LWGFTVFGWG LPAVFVAVWV SVRATLANTG CWDLSSGNKK WIIQVPIAS IVLNFILFIN IVRVLATKLR ETNAGRCDDR QQYRKLLKST IVMPLFGVH YIVFMATPYT EVSGTIWQVQ MHYEMLFNSF QGFFVAILYC FNGEVOQAEI KKSWSRWTLA LDFKRKARSG SSSYSYGPMV SHTSVTNVGP RVGLGLPLSP RLPTATTNG HPQLPGHAKP GTPALETLET TPPAMAAPKD DGFLNGSCSG LDEEASGPER PPALLQEWE TVM </p>	Homo sapiens

Homo sapiens

P

NP_001109.1

3732

PACAP

Receptor

Type 1

231

ggcgatctcc gtcttcata aagactggat tctgtatgcg gacgaggaca gcaaccactg
cttcattccc actgtggaat gtaaggccgt catggttttc ttccactact gtgttggtgc
caactacttc tggctgttca tcgaggccct gtacctcttc actctgctgg tggagacctt
cttccctgaa aggagatact tctactggta caccattatt ggctggggga cccaactgt
gtgtgtgaca gtgtgggta cgctgagact ctactttgat gacacaggct gctgggatat
gaatgacagc acagctctgt ggtgggtgat caaaggccct gtggttgctt ctatcatggt
taactttgtg ctttttatg gcattatctg cactcttg cagaaacttc agtctccaga
catgggagc aatgagtcca gcatctactt gcgactggc cggctccacc tgcgtctcat
cccactattc ggaatccact acacagtatt tgccttctcc ccagagaaatg tcagcaaaa
ggaagactc gtgtttgagc tggggctggg ctccttccag ggcttttggt tggctgttct
ctactgtttt ctgaatgggt aggtacaagc ggagatcaag cgaataatggc gaagctggaa
ggtgaacctg tacttcgctg tggacttcaa gcaccgacac ccgtctctgg ccagcagtgg
ggtgaatggg ggcaccacgc tctccatctt gagcaagagc agtccccaaa tccgcatgtc
tggcctccct gctgacaatc tggccacctg agccatgctc cccct

232

Homo sapiens

A

NM_005161

3844

Apelin

Receptor

232

atggaggag gtggtgattt tgacaactac tatggggcag acaaccagtc tgagtgtgag
taccagact ggaatccctc gggggccctc atccctgcca tctacatgtt ggtcttcttc
ctggggacca cgggaaacgg tctggtgctc tggaccgtgt ttcggagcag ccgggagaa
aggcgtcag ctgatatctt cattgctagc ctggcgggtg ctgacctgac cttcgtggtg
acgtgccc tgtgggctac ctacacgtac cgggactatg actggccctt tgggacctc
ttctgcaagc tctcgacctc cctcatcttc gtaacatgt acgccaagcgt cttctgccc
accggcctca gcttcgaccg ctacctggcc atcgtgaggc cagtggccaa tgcctggctg
aggctgcggg tcagcggggc cgtggccacg gcagttcttt ggggtgctgg cggcctcctg
gcatgacctg tcatggtgtt acgaccacc ggggacttgg agaaccacc taaggtgcag
tgcacatgg actactccat ggtggccact gtgagctcag agtgggacctg ggaagtgagg
cttgggggtc cgtccaccac cgtgggcttt ggtgtgacct teaccatcat gctgacctgt
tacttcttca tggcccaaac catcgtgctg cacttccgca aggaacgcac cgaggggcctg
cgggaagcggc gccggctgct cagcatcacc tgggtgctgg tggtagacct tgcctgtgc
tggatgccct accacctggt gaagacgctg tacatgctgg gcagcctgct gcaactggccc
tgtgactttg acctcttctt catgaacatc tccccactt gcaactgcat cagctacgtc
aacagctgcc tcaacccctt cctctatgcc ttttccgacc ccggttccg ccaggcctgc
acctccatgc tctgctgtgg ccagagcagg tccgagggca cctccacag cagcagtggg
gagaagtcat ccagctactc ttccggggcag agccaggggc ccggcccccac catgggcaag

233	3844	Apelin Receptor	NP_005152.1	ggtggagaac agatgcacga gaaatccatc cctacagcc aggagacct tgtggttgac tag	Homo sapiens
				MEEGGDFDNY YGADNQSECE YTDWKSSGAL IPAIYMLVFL LGTTGNGLVL WTVFRSSREK P RRSADIFIAS LAVADLTFV TLPLWATYTY RDYDWEPTGF FCKLSSYLIF VNMVASVFCL TGLSFDRLYA IVRPVANARL RLRVSGAVAT AVLWVLAAL AMPVMVLRIT GDLENTTKVQ CYNDSMVAAT VSSEMAWEVG LGVSSTTVGF VVPFTIMLTC YFFIAQTIAT FPKERIEGL RKRRRLLSII VVLVATFALC WMPYHLVKTL YMLGSLHWP CDFDLFLMNI FPYCTCISYV NSCLNPFLLYA FFDPRFRQAC TSMMLCCGQSR CAGTSHSSSG EKSASYSSGH SQGPGPNMGK GGEQMHEKSI PYSQETLVVD	
234	3845	Chemokine- Like Receptor 1 (CMKLR1)	NM_004072	gaattcggca cgagtcaggg aagcagcccc ggcgccagc aggagactca ggacagagca A ggctccctgg gaagcctcgg ggtgataggg gtgttccagc tgcggcgctc tgggggttca gagggggatc ttgaatgaac aaatgaatga actgctttct gggaacacag ccacagccag aggagcctgt gattggcaga aagaagccag ggtgtgcaag tctcccaac agcctcgagt ggcctgcagt cacagggaac cctcagggaag accttccggg cagagaccag agggaaagccc atctctccag cagaactgct ctgagatgct aggtctgggac tagcacagca tcacttctac atagcagaag ctgagtgcat ctgagatgct aactcaccat gccagtgcag attcaagggg aggagaaata cactttctgt tggtcacagc aactcaccat gccagtgcag attcaagggg aggagaaata gagtcacctt ctgtatggga ggctgacat agaattggag atgaagatta caacacttcc atcagttacg gtgatgaata cctgattat ttagactcca ttgtggtttt ggaggactta tcccccttgg aagccagggt gaccaggatc ttccctgggtg tgggtctacag catcgtctgc ttctcctggga ttctgggcaa tggctgtggtg atcatcattg ccacttcaa gatgaagaag acagtgaaca tggctgtggtt cctcaacctg gcagtggcag atttctctgt caactcttc ctcccaatcc atatacacta tggcgccatg gactaccact ggggttttcgg gacagccatg tgcaagatca gcaacttcc tctcatccac aacatgttca ccagcgtctt cctgctgacc atcatcagct ctgaccgctg catctctgtg ctctctccctg tctggtccca gaaccaccgc agcgttcgcc tggcttacat ggctgtcatg gtcatctggg tccctggcttt cttcttgagt tccccatctc tctgtctccg ggacacagcc aacctgcatg ggaaatatac ctgcttcaac aacttcagcc tgtccacacc tgggtcttcc tctgtggcca ctcaactcca aatggaccct gtgggggtata gccggcacat ggtggtgact gtcacccgct tccctgtggtg cttcctggtc ccagtcctca tcatcacagc ttgtacctc accatcgtgt gcaaaactgca gcgcaaccgc ctggccaaga ccaagaagcc cttcaagatt attgtgacca tcatcattac cttcttcttc tgtgtgtgcc cctaccacac actcaacctc ctgagagctcc accacactgc catgacctggc tctgtcttca gctggggttt gccctggcc actgccccttg ccattgcca cagctgcatg aaccctatc tgtatgtttt catgggtcag gacttcaaga agttcaaggt ggccctcttc tctcgcctgg tcaatgctc aatgaatgag aggacttcta tgaatgagag ggagaccggc agctttacca agatgtcatc aatgaatgag aggacttcta tgaatgagag ggagaccggc atgctttgat cctcactgtg gaaccttca atggactctc tcaacctcag gacacccaag gatatgtctt ctgaagatca aggcaagaac ctcttttaga tccaccaatt ttcactgcat tttgcatggg atgaacagtg ttttatgctg ggaatctag gcttggaaac cctttcttct agtggacaga acatgctgtg ttccatacag ccttggacta gcaatttatg cttcttggga ggccagcctt gactgactca aagcaaaaaa ggaagaattc	Homo sapiens

235	3845	Chemokine- Like Receptor 1 (CMKLR1)	NP_004063.1	MEDEDYNTSI IIATFKMKKT MFTSVFLTI LHGKISCENN IVCKLQRNRL ALAIANSNMN TSMNERETGM L	SYGDEYPDYL VNMVWFLNLA ISSDRCSIVL FSLSTPGSSS AKTKPEFKII PILYVFMGQD FKKFKVALFS	DSIVVLEDLS VADEFLENVFL LPVWSQNHR WPTHSQMDPV VTIITFFLC WCPYHTLNL RLVNALSEDT	PLEARVTRIF PHITYAAMD VRLAYMACMV GYSRHMVTV WCPYHTLNL ELNHTAMPGS GHSSYPHSRS	LVVYSIVCF YHWVFGTAMC IWVLAFFLSS TRFLCGFLVP VLIITACYLT ELNHTAMPGS FTKMSSMNER	LGILNGGLVI KISNFLLIHN PSLVFRDTAN VLIITACYLT VFSLGLPLAT	Homo sapiens
236	3846	Sphingolipid Receptor Edg1	NM_001400	gtcgggggca cttcgcccgt cacaaaaagc cgccctctag accatggggc gtcaactatg gacaaggaga atcctggaga atgtactatt gctaaccctg cggaaggaga attgagcgct ctcttcctgc atgggctgga aagcactata ctgtactgca aacatttcca atcgtcctga gtgggctgca gctgtgctca cgggcccttca ttcaagcgac caccocccaga tcttcttccct ccacccccagt caagccagag tagagttagt tatatatatt agctccctaa tctttgtctg gtgtgcactt ttcatacccc ctgggggttg tggggaagatg	gcagcaagat cttgagcgag ctggatcact cgttcgtctg ccaccagcgt atatactcgt acagcattaa acatctttgt ttattggcaa tcttgctctg gtatgtttgt atatcacaat taatcagcgc actgcatacg tctcttcttg gaattactac agccagccg cagctctgag gcctgtctat gctgtgctgc aggtgaagac actccggcac tccggatcat ccatcatcgc agacgaagg agaaactggaa gtttggaaaa ggaggaagg tcctgtgaac accccctgg gggttcattt gagctttgag ctgtctcttt tcctcaacgt ggaatgatcg aagatgggtt	gcgaagcgag gtcgcggtt catcgaacca gagtagcgcc ccgctggtc ccggcattac actgacctg cttgctgacc tctggccctc ggccaccacc ggccctgtc gctgaaaatg gctgaaatg ctgtgggtc taatcagcgc actgcatacg tctcttcttg gaattactac agccagccg cagctctgag gcctgtctat gctgtgctgc aggtgaagac caaccccatc gtcctgtctg ttcagccgga ttcagccgga gagaccatta caccggaagc gctgtccacc aatctctctg gcttcgactg aacagccttg gaaggggtga aatgcactgg agctttgatt ggccctctct gagatgtttt agggatgccc tctttactt atcatctata ggaggtgtaa aacaatgtcc	ccgtacagat ccgagccct ccccgaagc accccgctt aaggccacc aactacacg gtgggttca atttgaaaa tcagacctg tacaagctca gacctcgtg aaactccca atctccctca agctgtctca ttcactctgc actcggagcc aagtcgctg gcacctctt gcacctctt ctgtgacatc caaccccatc gtcctgtctg ttcagccgga ttcagccgga gagaccatta caccggaagc gctgtccacc aatctctctg gcttcgactg aacagccttg gaaggggtga aatgcactgg agctttgatt ggccctctct gagatgtttt agggatgccc tctttactt atcatctata ggaggtgtaa aacaatgtcc	ccgaacgcaa gaaaaagcta tctctcgct cagtgaaagg cctggggaca gaggttggc cagctcggg gaaagctgaa tctcatctg ccagaataat tggcaggagt ctcccgcct tcagtcctct cgcgcctgac cgctgtctca tcactctgct tcactctgct cctggtgcta tgaccaacaa gagagatcgt gctggcaaa gcaaatcggg caattcctcc tgtcttctg tggtcgtgctg ctgccaggga tggtgctgctg tggtggtggg gatcaggtcc cggcctggaa cgaaggtct tgtccccatg tgaaagcgtc agttcctg ccttcacttt tgtacatccc acacccacc ctccctccc ctacctgaga gttatcagag tatgttgagt acgtaggctg cctgctgagg cctgctgagg	Homo sapiens	

237	3846	Sphingolipid NP_001391.2 Receptor Edg1	catgtaagcg ggatccggtt ttggaattt ggtgaagtc acttgattt ctttaaaaa catcttttca atgaatgtg ttaccattt atatccattg aagccgaat ctgcataagg aagccactt tatctaaatg atattagcca ggtcccttg tgctctagga gaaacagaca agcaaaacaa agtgaaaacc gaatggatta acttttgcaa accaaggag acttcttagc aatgagtcct acaaatatg acatccgtct tcccactt ttgtgatgtt tatttcagaa tcttggtga ttcatttcaa gcaacaacat gttgatattt gttgtgttaa agtactttt cttgattttt gaatgtattt gttcaggaa gaatcattt tatggattt tctaacccgt gttaactttt ctagaatcca cctctcttg cccttaagca ttactttaac tggtagggaa cgccagaact ttttaagcca gctattcatt agatagtaat tgaagatag tataaatatt acaaagaata aaaaatat actgtctctt tagtatggtt ttcagtgcac ttaaacccgag agatgtcttg tttttttaa aagaatagta ttaaataggt tctgacttt tgtggatcat ttgacacata gctttatcaa cttttaaaca ttaataaact gattttttta aag tctgacacata gctttatcaa cttttaaaca ttaataaact gattttttta aag	Homo sapiens
			MGPTSVPLVK AHRSSVDYV NYDIIVRHYN YTGKINISAD KENSIKLTSTV VFILICCFII P LENIEVLLTI WTKKFRHPM YFIGNLALS DLLAGVAYTA NLLSGATTY KLTPAQWFLR EGSMFVALSA SVFSLIAIAI ERYITMLMK LHNGSNFRL FLISACWVI SLILGLPIM GWNCSALSS CSTVLPYHK HYILECTTVF TLLLSIVIL YCRIYSLVRT RSRRLTFRKN ISKASRSSEK SLALLKTVII VLSVFIACWA PLFILLLLDV GCKVKTCDIL FRAEYFLVLA VLNSGTNP II YTITNKEMRR AFIRIMSCCK CPSGDSAGKE KRPIIAGMEF SRSKSDNSSH PQKDEGDNPE TIMSSGNVNS SS	
238	3847	Sphingolipid NM_005226 Receptor Edg3	atggcaactg cctcccgc ggcgtctccag ccggtgcggg ggaacgagac cctgcgggag A cattaccagt agctggggaa gttggcggc aggcctgaag aggcctccga gggcagcacg ctcaccacag tgctctctt ggtcatctgc agcttcacg tcttggagaa cctgatggtt ttgatggcca tctggaaaaa caataaat ttt cacaacgca tgtactttt cattggcaac ctggctctct ggcacctgct ggcgggcatc gcttacaag tcaacattct gatgtctggc aagaagacgt tcagcctgtc tccacgggtc tgggtccctca gggagggcag tatgtctgtg gcccctgggg egctcacctg cagcttactg gccatcgcca tggagcggca cttgacaaatg atcaaaaatga ggccttacga cgccaaacag aggcaccgag tcttctctct gatcgggatg tgctgggctca ttgccttcac gctggggcgc ctgcccattc tgggctggaa ctgcccgcac aatctccctg actgctctac catcctgccc ctctactcca agaagtacat tgccttctgc ataagcatct tcaggccat cctggtgacc atcgtgacc tctacgcac catctacttc ctggtgaagt ccagcagccg taaggtggcc aaccacaaca actcggagcg gtccatggca ctgctgcgga cctggtgat tgggtgagc ggttccatcg cctgctggtc cccactcttc atcctcttcc tcattgatgt ggcctgcagg tgcaggcgt gcccatctt cttcaaggct cagtggttca tegtgttggc tgtgctcaac tccgccaatg acccggtcat ctacacgctg gccagcaagg agatgcggcg ggccttcttc cgtctggtct gcaactgcct ggtcagggga cggggggccc ggcctcacc catccagcct ggcctcagc caagcagaag taaatcaagc agcagcaaca atagcagcca ctctccgaag gtcaaggaa aacctgcccc cacagacccc tcactctgca tcatggacaa gaacgcagca cttcagaatg ggtacttctg caactga MATALPPRLQ PVRGNELTRE HYQYVGKLAG RLKASEGST LTVLFLVIC SFIVLENLMV P LIAIWKNKF HNRMYFFIGN LALCDLLAGI AYKNILMSG KTFSLSPV WFLREGSMFV ALGASTCSLL AIAIERHLTM I KMRPYDANK RHRVPELLGM CWLIAFTLGA LPIIGWNCILH	Homo sapiens
239	3847	Sphingolipid NP_005217.1 Receptor Edg3		Homo sapiens

240	3848	C-C	NM_006641	Chemokine Receptor 9	<p>NLPDCSTILP LYSKKYIAFC ISIFTAILVT IVILYARIYF LVKSSSRKVA NHNSERSMA LLRTVIVVS VFIACWSPLF ILFLIDVACR VQACPILFKA QWFIVLAVLN SAMNPVIYTL ASKEMRRAFF RLVCNCLVRG RGRASPIQP ALDPSRSKSS SSNNSSHSKP VKEDLPHTDP SSCIMDKNAA LQNGIFCN</p> <p>gcccctcatc ccaggcgagag agcaacccag ctctttcccc agacactgag agctggtggt A gctgtgtgtc ccaggcgagag ttgcatcgcc ctccacaagc cctattccta acatggctga tgactatggc tctgaatcca catcttccat ggaagactac gtaacttca acttactga cttctactgt gagaaaaca atgtcaggca gtttgcgagc catttccctc cacccttga ctggctctgt ttcatcggtg gtgccttggg caacagtctt gttatccttg tctactggta ctgcacaaag gtgaagacca tgaccgacat gttccttttg aatttgcaaa ttgctgacct cctctttctt gtcactcttc ccttctgggc cattgctgct gctgaccagt ggaagtcca gaccttcatt tgcaagggtg tcaacagcat gtacaagatg aacttctaca gctgtgtgtt gctgatcatg tgcatcagcg tggacaggta cattgccatt gccaggcca tgagagcaca tacttggagg gagaaaaggc ttttgtacag caaaatggtt tgctttacca tctgggtatt ggcagctgct ccttgcaccc cagaaatctt atacagccaa atcaaggagg aatccggcat tgctatctgc accatgggtt accctagcga tgagagcacc aaactgaagt cagctgtctt gacctgaag gtcattcttg ggttcttctt tcccttcgtg gtcattggctt gctgctatc catcatcatt cacaccctga tacaagccaa gaagtcttcc aagcacaag cctaaaaagt gacctcact gtctgacgg tcttgtctt gtctcagttt cctacaaact gcattttgtt ggtgcagacc attgaagcct atgcatgtt catctccaac tgtgccgttt ccaccaacat tgacatctgc ttccaggtca cccagaccat cgcctcttcc cacagtggc tgaacctgt tctctatgtt ttgtgtgggt agagatttccg ccgggattctc gtgaaaacc tgaagaactt gggttgcatc agccaggccc agtgggttcc atttacaagg agagaggga gcttgaagct gtcgtctatg ttgctggaga caactcagg agcactctcc ccttgagggt tcttctcga ggtgcagagt tcttttgaa gaaatgagaa atacagaaac agtttccca ctgatgggac cagagagagt gaaagagaaa agaaaactca gaaaggatg aatctgaact atatgattac ttgtagtcag aatttgcaa agcaaatatt tcaaatcaa ctgactagt caggaggctg ttgattggct ctgactgtg atgcccgcaa ttctcaagg aggaactaagg accggcactg tgaggacccc tggctttgccc actgcggga gcatcaatgc cgtgcctct ggaggagccc ttggattttc tccatgcact gtgaacttct tgggcttcag ttctcatgct gcctctcca aaaggggaca cagaagcact ggtgctgct acagaccgca aaagcagaaa gtttcgtgaa aatgccatc ttgggaaat ttcttaccct gctottgagc ctgataacc atgccaggtc ttatagattc ctgactaga acctttccag gcaatctcag acctaatctt ctctgttct cctgttctg ttctgggcca gtgaaggtcc ttgttctgat ttgaaaacga tctgcaggtc ttgccagtga accctggac aactgaccac accacaagg catcaaaagt ctgttggctt ccaatccatt tctgtgtcct gctggagggtt ttaacctaga caaggattcc gcttattcct tggatgggtg acagtgtctc tccatggcct gacagggag attataacag ctgggttcgc aggagccagc ctggccctg ttgtaggctt gttctgttga gtggcacttg ctttgggtcc accgtctgtc tgctccctag aaatgggtc ggttcttttg gccctcttct ttctgaggcc cacittattc tgaggaatag agtgagcaga tatgggcagc agccaggtag ggcagaagggg tgaagcgag gccttctgtg aaggctattt acttccatgc ttctctttt ctactctat</p>	Homo sapiens
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241	3848	C-C Chemokine Receptor 9	NP_006632.2	SMEDYVNEN FTDFYCEKNN VRQFASHFLP PLYWLVFIVG ALGNSLVILV P at YWYCTRVKTM TDMFLNLAI ADLLFLVTLF FWAIAAADQW KFQTFMCKV NSMYKMNFS CVLLIMCISV DRYIAIAQAM RAHTWREKRL LYSKMVCFTI WVLAALCIP EILYSQIKEE SGIAICTMNV PSESTKLKS AVLTILKVILG FFLPFVVMAC CYTIIHTLI QAKKSSKHA LKVTITVLT FVLSQFPYNC ILLVQTIDAY AMFISNCAVS TNIDICFQVT QTIAFFHSCL NPVLYFVGE RFRRLVRTL KNLGCISQAQ WVSFTRREGS IKLSSMLLET TSGALS atggaagatt tggaggaaac attatttgaa gaatttga actattccta tgacctagac A tattactctc tggagtcga tttggaggag aaagtcacg tggagttgt tcactgggtc tataattgtt ggcttttgg ctgggaatc caggaaatg catcgtcatt tgggtcacgg ggctcaagt gaagaagaca gtcaccact tgtggttcc caatctagcc attgcggatt tcatttttct tctctttctg ccctgtaca tctcctatg tgccatgaat ttccactggc cctttggcat ctggctgtgc aaagccaat ccttcactgc ccagttgaac atggttgcca gtgtttttt cctgacagt atcagcctg accactatat ccacttgatc catcctgtct tatctcatcg gcacgaacc ctcaagaact ctctgattgt cattatattc atctggcttt tggcttctct aatggcgg ctggcctgt acttcggga cactgtggag ttcaataatc atactcttgc ctataacaat ttbcagaagc atgacccga cctcactttg atcaggcacc atgttctgac ttgggtgaaa tttatcattg gctatctctt ccctttgcta acaatgagta tttgctactt gtgtctcatc ttcaaggtga agaagcgaac agtcctgac tccagtaggc atttctggac aatcttggtt gtggttggtg cctttgtggt ttgtctggact ccttatcacc tgttttagcat ttgggagctc accattacc acaatagcta ttcccaccat gtgatgcagg ctggaatccc cctctccact ggtttggcat tctccaatag ttgcttgaa cctcactgtc cctcactgtc gagatactca agtacacact gtgggaagtc agctgttctg gcacagtga tgaacagctc aggaactcag aaaccaagaa tctgtgtctc ctggaacacg ctcaataa MEDLEETLFE EFENYSYDLD YXSLESLEE KVQLGWVHW SILVYCLAFV LGIPGNAIVI P WFTGLKWKKT VTIMFLNLA IADFIFLLFL PLYISYVAMN FHWPFGIWLC KANSTFAQLN MFASVEFLT V ISLDHYIHLI HPVLSHRHRT LKNLSLIVIF IWLASLIGG PALYFRDTVE FNNHTLCYNN FOKHPDLTL IRHVLTWK FIIGYLEPLL TMSICYLCLI FKVKRRTVLI SSRHFWTILV VVAFVVCWT PYHLFSIWEL TIHNSYSHH VWQAGIPLST GLAFLNSCLN PILXVLISK FOARFRSSVA EILKYLWEV SCSGTVSEQL RNSETKNICL LETAQ atggcctcat cgaccactcg gggccccagg gtttctgact tattttctg gctgccgccc A gcggtcacaa ctcccgccaa ccagagcgca gaggcctcgg cgggcaacgg gtcgttggt ggcgggacg ctcagccgt cacgccctc cagagcctgc agctggtgca tcagctgaag ggcgtgatcg tgcgtctcta cagcgtcgtg gtggtgtggg caactgcctg ctggtgctgg tgatcgccg gggtgcggcg ctgcacaacg tgacgaactt cctcatcgcc aacctggcct tgtccgacgt gctcatgtgc accgctgcg tgcgctcac gctggcctat	Homo sapiens
242	3849	G Protein- Coupled Receptor GPR1	NM_005279	atggaagatt tggaggaaac attatttgaa gaatttga actattccta tgacctagac A tattactctc tggagtcga tttggaggag aaagtcacg tggagttgt tcactgggtc tataattgtt ggcttttgg ctgggaatc caggaaatg catcgtcatt tgggtcacgg ggctcaagt gaagaagaca gtcaccact tgtggttcc caatctagcc attgcggatt tcatttttct tctctttctg ccctgtaca tctcctatg tgccatgaat ttccactggc cctttggcat ctggctgtgc aaagccaat ccttcactgc ccagttgaac atggttgcca gtgtttttt cctgacagt atcagcctg accactatat ccacttgatc catcctgtct tatctcatcg gcacgaacc ctcaagaact ctctgattgt cattatattc atctggcttt tggcttctct aatggcgg ctggcctgt acttcggga cactgtggag ttcaataatc atactcttgc ctataacaat ttbcagaagc atgacccga cctcactttg atcaggcacc atgttctgac ttgggtgaaa tttatcattg gctatctctt ccctttgcta acaatgagta tttgctactt gtgtctcatc ttcaaggtga agaagcgaac agtcctgac tccagtaggc atttctggac aatcttggtt gtggttggtg cctttgtggt ttgtctggact ccttatcacc tgttttagcat ttgggagctc accattacc acaatagcta ttcccaccat gtgatgcagg ctggaatccc cctctccact ggtttggcat tctccaatag ttgcttgaa cctcactgtc cctcactgtc gagatactca agtacacact gtgggaagtc agctgttctg gcacagtga tgaacagctc aggaactcag aaaccaagaa tctgtgtctc ctggaacacg ctcaataa MEDLEETLFE EFENYSYDLD YXSLESLEE KVQLGWVHW SILVYCLAFV LGIPGNAIVI P WFTGLKWKKT VTIMFLNLA IADFIFLLFL PLYISYVAMN FHWPFGIWLC KANSTFAQLN MFASVEFLT V ISLDHYIHLI HPVLSHRHRT LKNLSLIVIF IWLASLIGG PALYFRDTVE FNNHTLCYNN FOKHPDLTL IRHVLTWK FIIGYLEPLL TMSICYLCLI FKVKRRTVLI SSRHFWTILV VVAFVVCWT PYHLFSIWEL TIHNSYSHH VWQAGIPLST GLAFLNSCLN PILXVLISK FOARFRSSVA EILKYLWEV SCSGTVSEQL RNSETKNICL LETAQ atggcctcat cgaccactcg gggccccagg gtttctgact tattttctg gctgccgccc A gcggtcacaa ctcccgccaa ccagagcgca gaggcctcgg cgggcaacgg gtcgttggt ggcgggacg ctcagccgt cacgccctc cagagcctgc agctggtgca tcagctgaag ggcgtgatcg tgcgtctcta cagcgtcgtg gtggtgtggg caactgcctg ctggtgctgg tgatcgccg gggtgcggcg ctgcacaacg tgacgaactt cctcatcgcc aacctggcct tgtccgacgt gctcatgtgc accgctgcg tgcgctcac gctggcctat	Homo sapiens
243	3849	G Protein- Coupled Receptor GPR1	NP_005270.1	atggaagatt tggaggaaac attatttgaa gaatttga actattccta tgacctagac A tattactctc tggagtcga tttggaggag aaagtcacg tggagttgt tcactgggtc tataattgtt ggcttttgg ctgggaatc caggaaatg catcgtcatt tgggtcacgg ggctcaagt gaagaagaca gtcaccact tgtggttcc caatctagcc attgcggatt tcatttttct tctctttctg ccctgtaca tctcctatg tgccatgaat ttccactggc cctttggcat ctggctgtgc aaagccaat ccttcactgc ccagttgaac atggttgcca gtgtttttt cctgacagt atcagcctg accactatat ccacttgatc catcctgtct tatctcatcg gcacgaacc ctcaagaact ctctgattgt cattatattc atctggcttt tggcttctct aatggcgg ctggcctgt acttcggga cactgtggag ttcaataatc atactcttgc ctataacaat ttbcagaagc atgacccga cctcactttg atcaggcacc atgttctgac ttgggtgaaa tttatcattg gctatctctt ccctttgcta acaatgagta tttgctactt gtgtctcatc ttcaaggtga agaagcgaac agtcctgac tccagtaggc atttctggac aatcttggtt gtggttggtg cctttgtggt ttgtctggact ccttatcacc tgttttagcat ttgggagctc accattacc acaatagcta ttcccaccat gtgatgcagg ctggaatccc cctctccact ggtttggcat tctccaatag ttgcttgaa cctcactgtc cctcactgtc gagatactca agtacacact gtgggaagtc agctgttctg gcacagtga tgaacagctc aggaactcag aaaccaagaa tctgtgtctc ctggaacacg ctcaataa MEDLEETLFE EFENYSYDLD YXSLESLEE KVQLGWVHW SILVYCLAFV LGIPGNAIVI P WFTGLKWKKT VTIMFLNLA IADFIFLLFL PLYISYVAMN FHWPFGIWLC KANSTFAQLN MFASVEFLT V ISLDHYIHLI HPVLSHRHRT LKNLSLIVIF IWLASLIGG PALYFRDTVE FNNHTLCYNN FOKHPDLTL IRHVLTWK FIIGYLEPLL TMSICYLCLI FKVKRRTVLI SSRHFWTILV VVAFVVCWT PYHLFSIWEL TIHNSYSHH VWQAGIPLST GLAFLNSCLN PILXVLISK FOARFRSSVA EILKYLWEV SCSGTVSEQL RNSETKNICL LETAQ atggcctcat cgaccactcg gggccccagg gtttctgact tattttctg gctgccgccc A gcggtcacaa ctcccgccaa ccagagcgca gaggcctcgg cgggcaacgg gtcgttggt ggcgggacg ctcagccgt cacgccctc cagagcctgc agctggtgca tcagctgaag ggcgtgatcg tgcgtctcta cagcgtcgtg gtggtgtggg caactgcctg ctggtgctgg tgatcgccg gggtgcggcg ctgcacaacg tgacgaactt cctcatcgcc aacctggcct tgtccgacgt gctcatgtgc accgctgcg tgcgctcac gctggcctat	Homo sapiens
244	3850	G Protein- Coupled Receptor 10 (GPR10)	NM_004248	atggaagatt tggaggaaac attatttgaa gaatttga actattccta tgacctagac A tattactctc tggagtcga tttggaggag aaagtcacg tggagttgt tcactgggtc tataattgtt ggcttttgg ctgggaatc caggaaatg catcgtcatt tgggtcacgg ggctcaagt gaagaagaca gtcaccact tgtggttcc caatctagcc attgcggatt tcatttttct tctctttctg ccctgtaca tctcctatg tgccatgaat ttccactggc cctttggcat ctggctgtgc aaagccaat ccttcactgc ccagttgaac atggttgcca gtgtttttt cctgacagt atcagcctg accactatat ccacttgatc catcctgtct tatctcatcg gcacgaacc ctcaagaact ctctgattgt cattatattc atctggcttt tggcttctct aatggcgg ctggcctgt acttcggga cactgtggag ttcaataatc atactcttgc ctataacaat ttbcagaagc atgacccga cctcactttg atcaggcacc atgttctgac ttgggtgaaa tttatcattg gctatctctt ccctttgcta acaatgagta tttgctactt gtgtctcatc ttcaaggtga agaagcgaac agtcctgac tccagtaggc atttctggac aatcttggtt gtggttggtg cctttgtggt ttgtctggact ccttatcacc tgttttagcat ttgggagctc accattacc acaatagcta ttcccaccat gtgatgcagg ctggaatccc cctctccact ggtttggcat tctccaatag ttgcttgaa cctcactgtc cctcactgtc gagatactca agtacacact gtgggaagtc agctgttctg gcacagtga tgaacagctc aggaactcag aaaccaagaa tctgtgtctc ctggaacacg ctcaataa MEDLEETLFE EFENYSYDLD YXSLESLEE KVQLGWVHW SILVYCLAFV LGIPGNAIVI P WFTGLKWKKT VTIMFLNLA IADFIFLLFL PLYISYVAMN FHWPFGIWLC KANSTFAQLN MFASVEFLT V ISLDHYIHLI HPVLSHRHRT LKNLSLIVIF IWLASLIGG PALYFRDTVE FNNHTLCYNN FOKHPDLTL IRHVLTWK FIIGYLEPLL TMSICYLCLI FKVKRRTVLI SSRHFWTILV VVAFVVCWT PYHLFSIWEL TIHNSYSHH VWQAGIPLST GLAFLNSCLN PILXVLISK FOARFRSSVA EILKYLWEV SCSGTVSEQL RNSETKNICL LETAQ atggcctcat cgaccactcg gggccccagg gtttctgact tattttctg gctgccgccc A gcggtcacaa ctcccgccaa ccagagcgca gaggcctcgg cgggcaacgg gtcgttggt ggcgggacg ctcagccgt cacgccctc cagagcctgc agctggtgca tcagctgaag ggcgtgatcg tgcgtctcta cagcgtcgtg gtggtgtggg caactgcctg ctggtgctgg tgatcgccg gggtgcggcg ctgcacaacg tgacgaactt cctcatcgcc aacctggcct tgtccgacgt gctcatgtgc accgctgcg tgcgctcac gctggcctat	Homo sapiens

Homo
sapiens

245 3850 G Protein-
Coupled
Receptor 10
(GPR10) NP_004239.1
gcttcgagc cagcgggctg ggtgttcggc ggcgccctgt gccacctggt cttcttcttg
cagccggtca ccgtctatgt gtcggtgttc acgctacca ccctgcagtg gacccgctac
gtcgtgctgg tgcaccgctt gaggcgggcg atctcgctgc ccctcagcgc ctacgctgtg
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gtggtgctcg tgggtgtgtt cgcgctgtc tggctggcg tgcagctctt caacctgctg
cgggacctcg accccacgc catcgacct catgacctt aacctcttg gctggtgcca gctgctcgc
cactggctcg ccatgagttc ggctgtctac aacctctta tctacgctg gctgcacgac
agcttcggcg aggagctgcg caaactgttg gtcgcttggc ccgcaagat agcccccat
ggccagaata tgaccgtcag cgtggtcctc tga
GLIVLLYSV VVGLVGNCL LVLVIARVR LHNTNFIIG NLALSDVLMC TACVPLTLAY
AFEPGRGVFG GGLCHLVFFL QPVTIVSVF TLTTIAVDY VLVHPLRRR ISRLSAYAV
LAIWALSAVL ALPAAVHTYH VELKPHDVRL CEEFWGSOER QRQLYAWGLL LVTYLLPLLV
ILLSYVRVSV KLRNRVPGC VTQSQADWDR ARRRFTFCLL VVVVVFVAVC WLPLHVFNL
RDLDPHADP YAFGLVQLLC HWLAMSSACY NPFIYAWLHD SFREELRKL VAWPRKIAPH
GQNMVTSVVI

Homo
sapiens

246 3851 G Protein-
Coupled
Receptor
GPR12 NM_005288
atgaatgaag acctgaaggt caatttaagc gggctgcctc gggattattt agatgcgct A
gctgcggaga acatctcggc tgctgtctcc tcccgggttc ctgcgctaga gccagagcct
gagctcgtag tcaacccctg ggacattgtc ttgtgtacct cgggaacctt catctcctg
gaaaatgcca ttgtgtcctc tcatctctc cacaacccca gctgcgagc acctatgtt
ctgctaatag gcagcctggc tottgacagc ctgctggccg gcatggact catcaccaat
tttgtttttg cctacctgct tcaagtcagaa gccaccaagc tggctacgat cgccctcatt
gtcgccctctt tctctgcctc tgctgcagc ttgctggcta tcaactgtga ccgctacctc
tcaactgtact acgctctgac gtaccattcg gagaggacgg tcaactgtac ctatgtcatg
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tgtaagattg tgatgaggca cggccatcag atagccctgc agcaccatt cctggccacg
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gtgcttctg ggtgctctt caccctctat tcttgatag cggattacac ctaccctcc
atctatacct acgccaacct cctgcccgc acctacaatt ccatcatcaa cctgtcata
tatgctttca gaaaccaaga gatccagaaa ggcctctgc tcatgtgctg cggctgcatc
ccgtccagtc tgcggcagag agcgctcgc cccagtgtg tgtag
MNEDLKVNLS GLPRDYLDAA AENISAASV SRPAVEPEP ELVNPWDIV LCTSGTLISC P
ENAIIVLIIIF HNPSLRAPMF LLIGSLALAD LLAGLGLITN FVFAYLLQSE ATKIVTIGLI
VASFSASVCS LLAITVDRL SLYALTYHS ERVTFITYVM LVMLNGTSIC LGLLPVMGWN
CLRDESTCSV VRPLTKNAA ILSVSFLMF ALMLQLYIQI CKIVMRHAHQ IALQHHFLAT

Homo
sapiens

247 3851 G Protein-
Coupled
Receptor
GPR12 NP_005279.1

248	3852	CX3C Chemokine Fractalkine Receptor 1	NM_001337	SHYVTRKGV STLAIIIGTF AACWMPFTLY SLIADYTPS IYTYATLLPA TYNSIINPVI YAFRNQEIQK ALCIIICGCI PSSLAQRARS PSDV ggggcagatc cagattccct ttgcagtcca cgccaggcct tcaccatgga tcagttccct A gaatcagtgga cagaaaactt ttagtacgat gatttggctg aggcctgtta tattggggagc atcgtgtctt ttgggactgt gttcctgtcc atattctact ccgtcatctt tgccatgtgc ctggtgggaa atttgttgtt agtgtttgct ctcaccaaca gcaagaagcc caagatgtgc accgacattt acctcctgaa cctggccttg tctgatctgc tgttttagc cactttgccc ttctggactc actatttgat aatgaaaaag ggctccaca atgccatgtg caaattcact accgcttctt tcttcacatg ctttttttga agcatattct tcatcacctg catcagcatt gataggtacc tggccatcgt cctggccgac aactccatga caaccggac cgtgcagcat ggcgtcaca tcagcctagg cgtctgggca gcagccattt tgggtggcag acccagttc atgttcacaa agcagaaaaa aatgaatgc cttgtgtact acccgaggt ccttcaggaa atctggcccg tgcctcgcaa tctggaaca aattttcttg gcttccact cccctgctc attatgagt attgtact cagaaatcac cagacgctgt ttctctgcaa gaaccacaag aaagccaaag ccattaaact gatcctcttg gtgtgtctg ttttttctt cttctggaca ccctacaacg ttatgatttt cctggagacg cttaagctct atgacttctt tcccagtgt gacatgagga aggatctgag gctggccctc agtgtgactg agacggttgc attagccat tgttgctga atcctctcat ctatgcattt gctggggaga agttcagaag atacccttac cacctgtatg gaaaatgctt gctgtctctg tgtgggctg cagtccacgt tgatttctcc tcactgtaac cacaaggag cagcatgga agtgttctga gcagcaattt tacttaccac acgagtgtg gagatgcat gctcctctc tgaagggaat cccaagcct tgtgtctaca gagaacctgg agttcctgaa cctgatgctg actagtggag aagatttttg ttgttatttc ttacaggcac aaaaatgatg acccaatgca cacaacacaa ccttagagtg ttgttgagaa tttgtctcaa aatttgaaga atgaacaaat tgaactcttt gaatgacaaa gactagacat ttctcttact gcaaatgtca tcagaaacttt ttgggtttgca gatgacaaaa attcaactca gactagtta gtaaatgag ggtgtgtaat attgttcata ttgtggcaca agcaaaaagg gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagcta MDQFPESVTE NFEYDDLAE CYIGDIVTG TVFLSIFYV IFALGLVGNL LVVEALTNSK P KPKSVTDIYL LNLALSDLLF VATLPFWTHY LGWAAAILV AAPQFMFTKO KENECLGDYP TVISIDRYLA IVLAANSMMN RTVQHGVITIS YFRIIQTLS CKNHKKAKAI KLILLVIVF EVLQEIWPVL RNVTNFTLGF LPLLLIMSYC YFRIIQTLS CKNHKKAKAI KLILLVIVF FLFWTPYNNM IFLETLLKLYD FFPSCDMRKD LRLALSVTET VAFSHCCCLNP LIYAFAGEKF RRYLYHLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NPTYHTSDGD ALILL atgggacccag aagaacttc agttatttg gattattact atgtctacgag cccaaactct A gacatcagg agaccactc ccatgttctt tacacctctg tcttctctcc agtcttttac acagctgtgt tctgactgg agtgcctggg aacctgttgc tcatgggagc gttgcatttc aaaccggca gcgaagact gatcgacatc ttatcatca atctggctgc cctgacttc atttttcttg tccatgtcc tctctgggtg gataaagaag catctctagg actgtggagg acgggctcct tctgtgcaa agggagctcc cagtcaatat gcactgcagt gtcctcctgc tcaattgcat gagtgttgac cgctacctgg ccattgtgtg gccagtcgta tccaggaaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc	Homo sapiens
249	3852	CX3C Chemokine Fractalkine Receptor 1	NP_001328.1		Homo sapiens
250	3853	G Protein- Coupled Receptor GPR15	NM_005290		Homo sapiens

251	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	MDPEETSVYL DYVYATSPNS DIRETHSHVP YTSVFLPVFY TAVFLTGVLG NLVIMGALHF P KPGSRRLIDI FIINLAASDF IFLVTLPLMV DKEASLGLWR TGSFLCKGSS YMI SVNMHCS VLLLTCSVD RYLAIVPVPV SRKFRRTDCA YVVCASIWFI SCLLGLPTLL SRELTLIIDDK PYCAEKKATP IKLIWSLVAL IFTFFVPLLS IVTCYCCIAR KLCAYQQSG KHNKKLKSI KIIFIVAAAF LVSWLPFNTF KFLAIVSGLR QEHYLP SAIL QLGMEVSGPL AFANSCVNPF IYVIFDSYIR RAIVHCLCPC LKNYDFGSST ETSDSHLTKA LSTFIHAEDF ARRRKRSVSL gaaagagaca aagcagcaat taaagtcagc ccagcaccaa ctcgcagcc aagcgttaca A ctggaacta ctttttaaaag caacaaaaga gctaaaaca aaatacaaa tttcttaaat acactgttcc cagaaagagc tattttaaca gaagcaactc aaagataacc cttcgacaga agtggaagtg ctgaaaaatg ctcatctctc acacagactt ttgatggaca ggagtctcta agtatcatgc ctaccaacaa gctgtaaaat gatcacctcg aacaatcaag atcaacctgt cccctttaac agctcacatc cagatgaata caaaattgca gcccttgtct tctatagctg tatcttcata attggattat ttgttaacat cactgcatta tgggttttca gttgtaccac caagaagaga accacggtaa ccatctatat gatgaatgtg gcattagtgg acttgatat tataatgact ttaccttttc gaatgtttta ttatgcaaaa gatgaatggc catttggaga gtacttctgc cagattcttg gagctctcac agtgttttac ccaagcattg ctttatggct tcttgccctt attagtctg acagatacat ggccattgta cagccgaagt acgccaaga acttaaaac acgtgcaag ccgtgctggc gtgtgtgga gtcgtgataa tgacctgac cagaccacc cctctgctac tgctctataa agaccagat aaagactcca ctcccggcac ctgcctcaag atttctgaca tcatctatct aaaagctgtg aactgtctga acctcactcg tcataatctc cttcacggca ggacgtctaa gctgaacccc aaagtcaagg agaagtcctt aagatcatc atcacgctgc tgggtcaggt gctcgtctgc ttatgccct tccacatctg ttctgccttc ctgatgctgg gaacgggga gaacagttac aatcccctgg gaccccttac cacttctc atgaacctca gcacgtgtct gcatgtgatt ctctactaca tegtttcaaa acaatttcag gctcagatca ttagtgtcat gctataacct aattacctc gaagcatgcg cagaaaaagt ttcgatctg gtagtctacg gtcactaagc aatataaaca gtgaaaatgt atgaataata aggtctcttc atttcaatc cacttacta actactctg cgteaagga tattctgtat aatactatca agtccctttt ctcttgaaaa aataaattca ttatcttcat tttaaaaaa aaaaaaaa	Homo sapiens
252	3854	G Protein-Coupled Receptor GPR18	NM_005292	gaaagagaca aagcagcaat taaagtcagc ccagcaccaa ctcgcagcc aagcgttaca A ctggaacta ctttttaaaag caacaaaaga gctaaaaca aaatacaaa tttcttaaat acactgttcc cagaaagagc tattttaaca gaagcaactc aaagataacc cttcgacaga agtggaagtg ctgaaaaatg ctcatctctc acacagactt ttgatggaca ggagtctcta agtatcatgc ctaccaacaa gctgtaaaat gatcacctcg aacaatcaag atcaacctgt cccctttaac agctcacatc cagatgaata caaaattgca gcccttgtct tctatagctg tatcttcata attggattat ttgttaacat cactgcatta tgggttttca gttgtaccac caagaagaga accacggtaa ccatctatat gatgaatgtg gcattagtgg acttgatat tataatgact ttaccttttc gaatgtttta ttatgcaaaa gatgaatggc catttggaga gtacttctgc cagattcttg gagctctcac agtgttttac ccaagcattg ctttatggct tcttgccctt attagtctg acagatacat ggccattgta cagccgaagt acgccaaga acttaaaac acgtgcaag ccgtgctggc gtgtgtgga gtcgtgataa tgacctgac cagaccacc cctctgctac tgctctataa agaccagat aaagactcca ctcccggcac ctgcctcaag atttctgaca tcatctatct aaaagctgtg aactgtctga acctcactcg tcataatctc cttcacggca ggacgtctaa gctgaacccc aaagtcaagg agaagtcctt aagatcatc atcacgctgc tgggtcaggt gctcgtctgc ttatgccct tccacatctg ttctgccttc ctgatgctgg gaacgggga gaacagttac aatcccctgg gaccccttac cacttctc atgaacctca gcacgtgtct gcatgtgatt ctctactaca tegtttcaaa acaatttcag gctcagatca ttagtgtcat gctataacct aattacctc gaagcatgcg cagaaaaagt ttcgatctg gtagtctacg gtcactaagc aatataaaca gtgaaaatgt atgaataata aggtctcttc atttcaatc cacttacta actactctg cgteaagga tattctgtat aatactatca agtccctttt ctcttgaaaa aataaattca ttatcttcat tttaaaaaa aaaaaaaa	Homo sapiens

253	3854	G Protein- Coupled Receptor GPR18	NP_005283.1	<p> MMNVALVDLI MAIVQPKYAK LKAVNVNLNT VLVCFMPEHI MLYRNYLRSM aattaagaga tttgattatt acctctgcca aacagacctt gattctgtgg taggaggact catcagcggt gggtagtgca ctacgttctc caaggtgtcc ctttgtgacc ctctccctcc gattccatct aggtgtgtcc aactatcaag tgtagctcag agctatcaca taatgccaat ccgaagcaat catttcagaa tgacagagaa ttttgtctaa taaaaacaga tttgtaaaat </p>	<p> VPENSSHPDE FIMTLPRMF ELKNTCKAVL CFAFILMLGTG RPKSFSGSL aaaaaagtga cctacacttc agccaatacc cactatgtgc ttgttttcta cagctaccca gccagcacgc acgtgcaagg ctctccatct agagaaaaag cctgtgctct tcttggaag gtccataaa ggccgaacgg atgttctcca ctatggcacc tgatatacct tttcggagag gctataacta atcccttcca gccaaggaaa gttctcattc agctatttac gcattcattt </p>	<p> YKIAALVFYS YYAKDEWPF ACGVGWIMTL FIMIGCYLVI ENSYNPWGAF RSLSNINSEM atatgggttt tggtgcccc tgatggaatt tgaaacccgg tcttcggcaa ccaactactt ctttcgctcc ttgtgcgata tgatgacagg ccaagaaaat ttttctatgg gcactgccta ttttatttta tgaggaggac ttttaaatct cccatgaaca ttagttcttc ggatgaaga tcacaacaag tgggcaaaaac aaaagcttgc tttcaattgt atatttggtt gtttactgt </p>	<p> CIFIIIGLEFN EYFCQILGAL TTTTPLLLLY IHNLLHGRTS TTFLMNLSTC L tgctcacaga cctacacttc aagtggagga ggaagtggcc tccctgggtt tggtgtctcc gtccagtttc ttttcaatat gttctacacc gattggcgca ctccaactgg cactgtcact ccaagaagtc aatgaacatt gttggttttg gttctcttgc atcgctctac tcgtggatct gacagtcatt cacttcttgg ataaaatata gtccctcgga ctctctctgc aaaagtctcc cctactctgt atgtctctta tgaaatgta gccaaaaaaa gactcgatct aactcaaatc agattaaaaa tcccaaggga aatgttttat </p>	ITALWVFSCT TVFYPSIALW KDPDKDSTPA KLKPKVREKS LDVILYIVVS KQFQARVLSV A	Homo sapiens
254	3855	G Protein- Coupled Receptor GPR19	NM_006143	<p> aattaagaga tttgattatt acctctgcca aacagacctt gattctgtgg taggaggact catcagcggt gggtagtgca ctacgttctc caaggtgtcc ctttgtgacc ctctccctcc gattccatct aggtgtgtcc aactatcaag tgtagctcag agctatcaca taatgccaat ccgaagcaat catttcagaa tgacagagaa ttttgtctaa taaaaacaga tttgtaaaat </p>	<p> VPENSSHPDE FIMTLPRMF ELKNTCKAVL CFAFILMLGTG RPKSFSGSL aaaaaagtga cctacacttc agccaatacc cactatgtgc ttgttttcta cagctaccca gccagcacgc acgtgcaagg ctctccatct agagaaaaag cctgtgctct tcttggaag gtccataaa ggccgaacgg atgttctcca ctatggcacc tgatatacct tttcggagag gctataacta atcccttcca gccaaggaaa gttctcattc agctatttac gcattcattt </p>	<p> YKIAALVFYS YYAKDEWPF ACGVGWIMTL FIMIGCYLVI ENSYNPWGAF RSLSNINSEM atatgggttt tggtgcccc tgatggaatt tgaaacccgg tcttcggcaa ccaactactt ctttcgctcc ttgtgcgata tgatgacagg ccaagaaaat ttttctatgg gcactgccta ttttatttta tgaggaggac ttttaaatct cccatgaaca ttagttcttc ggatgaaga tcacaacaag tgggcaaaaac aaaagcttgc tttcaattgt atatttggtt gtttactgt </p>	<p> CIFIIIGLEFN EYFCQILGAL TTTTPLLLLY IHNLLHGRTS TTFLMNLSTC L tgctcacaga cctacacttc aagtggagga ggaagtggcc tccctgggtt tggtgtctcc gtccagtttc ttttcaatat gttctacacc gattggcgca ctccaactgg cactgtcact ccaagaagtc aatgaacatt gttggttttg gttctcttgc atcgctctac tcgtggatct gacagtcatt cacttcttgg ataaaatata gtccctcgga ctctctctgc aaaagtctcc cctactctgt atgtctctta tgaaatgta gccaaaaaaa gactcgatct aactcaaatc agattaaaaa tcccaaggga aatgttttat </p>	ITALWVFSCT TVFYPSIALW KDPDKDSTPA KLKPKVREKS LDVILYIVVS KQFQARVLSV A	Homo sapiens
255	3855	G Protein- Coupled Receptor GPR19	NP_006134.1	<p> MVFARMDNS KPEVATASI FVLLQFTTGR KMIAASWIF LFYQKVIKVI HEQDYKKSSL TTSSRMAKKN agagatgggg ggacgcatac cagccggggc tggcctggtc </p>	<p> VPENSSHPDE FIMTLPRMF ELKNTCKAVL CFAFILMLGTG RPKSFSGSL aaaaaagtga cctacacttc agccaatacc cactatgtgc ttgttttcta cagctaccca gccagcacgc acgtgcaagg ctctccatct agagaaaaag cctgtgctct tcttggaag gtccataaa ggccgaacgg atgttctcca ctatggcacc tgatatacct tttcggagag gctataacta atcccttcca gccaaggaaa gttctcattc agctatttac gcattcattt </p>	<p> YKIAALVFYS YYAKDEWPF ACGVGWIMTL FIMIGCYLVI ENSYNPWGAF RSLSNINSEM atatgggttt tggtgcccc tgatggaatt tgaaacccgg tcttcggcaa ccaactactt ctttcgctcc ttgtgcgata tgatgacagg ccaagaaaat ttttctatgg gcactgccta ttttatttta tgaggaggac ttttaaatct cccatgaaca ttagttcttc ggatgaaga tcacaacaag tgggcaaaaac aaaagcttgc tttcaattgt atatttggtt gtttactgt </p>	<p> CIFIIIGLEFN EYFCQILGAL TTTTPLLLLY IHNLLHGRTS TTFLMNLSTC L tgctcacaga cctacacttc aagtggagga ggaagtggcc tccctgggtt tggtgtctcc gtccagtttc ttttcaatat gttctacacc gattggcgca ctccaactgg cactgtcact ccaagaagtc aatgaacatt gttggttttg gttctcttgc atcgctctac tcgtggatct gacagtcatt cacttcttgg ataaaatata gtccctcgga ctctctctgc aaaagtctcc cctactctgt atgtctctta tgaaatgta gccaaaaaaa gactcgatct aactcaaatc agattaaaaa tcccaaggga aatgttttat </p>	ITALWVFSCT TVFYPSIALW KDPDKDSTPA KLKPKVREKS LDVILYIVVS KQFQARVLSV A	Homo sapiens
256	3856	G Protein- Coupled Receptor GPR2/CCR10	NM_016602	<p> agagatgggg ggacgcatac cagccggggc tggcctggtc </p>	<p> VPENSSHPDE FIMTLPRMF ELKNTCKAVL CFAFILMLGTG RPKSFSGSL aaaaaagtga cctacacttc agccaatacc cactatgtgc ttgttttcta cagctaccca gccagcacgc acgtgcaagg ctctccatct agagaaaaag cctgtgctct tcttggaag gtccataaa ggccgaacgg atgttctcca ctatggcacc tgatatacct tttcggagag gctataacta atcccttcca gccaaggaaa gttctcattc agctatttac gcattcattt </p>	<p> YKIAALVFYS YYAKDEWPF ACGVGWIMTL FIMIGCYLVI ENSYNPWGAF RSLSNINSEM atatgggttt tggtgcccc tgatggaatt tgaaacccgg tcttcggcaa ccaactactt ctttcgctcc ttgtgcgata tgatgacagg ccaagaaaat ttttctatgg gcactgccta ttttatttta tgaggaggac ttttaaatct cccatgaaca ttagttcttc ggatgaaga tcacaacaag tgggcaaaaac aaaagcttgc tttcaattgt atatttggtt gtttactgt </p>	<p> CIFIIIGLEFN EYFCQILGAL TTTTPLLLLY IHNLLHGRTS TTFLMNLSTC L tgctcacaga cctacacttc aagtggagga ggaagtggcc tccctgggtt tggtgtctcc gtccagtttc ttttcaatat gttctacacc gattggcgca ctccaactgg cactgtcact ccaagaagtc aatgaacatt gttggttttg gttctcttgc atcgctctac tcgtggatct gacagtcatt cacttcttgg ataaaatata gtccctcgga ctctctctgc aaaagtctcc cctactctgt atgtctctta tgaaatgta gccaaaaaaa gactcgatct aactcaaatc agattaaaaa tcccaaggga aatgttttat </p>	ITALWVFSCT TVFYPSIALW KDPDKDSTPA KLKPKVREKS LDVILYIVVS KQFQARVLSV A	Homo sapiens

257	3856	G Protein- Coupled Receptor GPR2/CCR10	NP_057686.1	<p>ccacctgtc cagctggccc tggccgacct cttgctggcc ctgactctgc ctttcggcgc agcaggggct cttcagggtt ggagctctggg aagtggccacc tggccgaccca tctctggcct ctactcggcc tccctccacg ccggttctct cttcctggcc tgtatcagcg ccgaccgcta cgtggccatc gcgcgagcgc tccagcggg ccctcggccc tccactcccg gccgcgcaca cttggtctcc gtcactgtgt ggctgctgtc actgctctcg gcgctgctg cgtgctctt cagccaggat ggccagcggg aaggccaaag acgctgtgc ctcactctcc ccgagggcct cacgcagacg gtgaaggggg cgagcgccgt ggccgaggtg gccctgggct tcgctgctgc gctgggcgtc atggtagcct gctacgcgt tctggggcgc acgctgctgg ccgccagggg gcccgagcgc cggcgtgcgc tgcgcgtcgt ggtggctctg gtggcgccct tctggtgct gcagctgccc tacagcctcg cctgctgct ggatactgac gatctactgg ctgcgcgcga gcggagctgc cctgccagca aacgcaagga tctgcgact ctggtgacca gcggttggc cctcggccgc tgtggcctca atccgcttct ctacgcttc ctgggctcgc gttccgcca ggacctgcgg aggtgctac ggggtgggag ctgcgctca gggcctcaac ccgcgcgcgg ctgccccgc cggccccgc ttcttctctg ctacgctccc acggagacc acagtctctc ctgggacaac taggctgcg aatctagagg agggggcagg ctgagggtcg tgggaaaagg gagtaggtgg gggaacactg agaaagaggc agggacctaa agggactacc tctgtgcct gccacattaa attgataaca tggaaatgaa aaaaaaaa aaa</p>	Homo sapiens
258	3857	G Protein- Coupled Receptor GPR20	NM_005293	<p>atgccctctg tgtctccagc ggggcccctg gccggggcag tccccaatgc caccgcaagt A acaacagtgc ggaccaatgc cagcgggctg gaggtgccc tgttccacct gtttgcccgg ctggacgagg agctgcattg cacttccca gccctgtgc tggcgtgat ggcggtgcac ggagccatct tctggcagg gctggtgctc aacgggctgg cgtgtacgt cttctgtgc cgcaaccggg ccaagacacc ctcaatcacc tacaccatca acctggtgtt gaccgatcta ctggtagggc tgtccctgce cagcgcttc gctgtgtact acggcgccag gggctgcctg cgtgtgcct tccgcacgt cctcgggtac ttcctcaaca tgcactgctc catcctctc ctcaactgca tctgctgga ccgtacactg gccatcgtgc gggccgaagc tcccgcgc tgcggccagc ctgctctgac caggccctg tgcgcttgc tgtggctggc cgccgggtgc gtcacctgt cgtgctggg cgtgacaggc agcggccct gctgcccgtt ctttgctgctg actgtcctgg agttctctgt gccctgctg gctacagcg tgtttaccgg ccgcatcatg tgtgcaactgt cggggccggg tctgctccac cagggtgcgc agcgcgcgt gggggccatg cagctcctgc tcaagtgct catcatcttt ctgctgtct tcaagccctt ccacgcccgc caagtggccg tggcgctgtg gccgacatg ccacaccaca cgagcctcgt ggtctaccac gtggcctga cctcagcag cctcaacagc tgcattgacc ccatcgtcta ctgcttctgc accagtggct tccaggccac cgtccgaggc cttctgggc agcagggaga gcgtgagccc agcagcgggt acgtggtcag catgcacagg agctccaaag gctcaggccg tcatcacatc</p>	Homo sapiens

259	3857	G Protein- Coupled Receptor GPR20	NP_005284.1	ctcagtgccg gccctcaagc cctcaccag gccctggcta atggggccga ggcttag MPSVSPAGPS AGAVPNATAV TTVRTNASGL EVPLFHLFAR LDEELHGTFF GLCVLMAVH P GAIFLAGLVL NGLALYVFC RTRAKTPSVI YTINLVVTDL LVGLSLPTRE AVYVGARGCL RCAFPHVLYG FLNMHCSILF LTCICVDRLY AIVRPEAPAA CRQPACARAV CAFVWLAAGA VTLSVLGVTV SRPCCRFEAL TVLEFLPLL VLSVFTGLVH CALSRPGLLH QGRQRRVRAM QLLLTVLIIF LVCFTPFHAR QVAVALWPDH PHSTSLGVYH VAVTLSSINS CMDPIVYCFV TSGFQATVRG LFGQHGEREP SSGDVWSMRH SSKSGSRHHI LSAGPHALTQ ALANGPEA	Homo sapiens
260	3858	G Protein- Coupled Receptor GPR21	NM_005294	atgaactcca ccttggtatg taatcagagc agccaccctt ttgacctt ggcattggc A tatttggaaa ctgtcaattt ttgacctt gaagtattga ttattgtctt tctaactgta ttgattattt ctggcaacat cattgtgatt ttgttatttc actgtgcacc ttgttgaac catcacacta caagtattt tatccagact atggcatatg ctgacctttt tgttggggtg agctgcgtgg tcccttctt atcactctc catcacccc tccagtaga ggagtcctg acttgcaga tatttggttt tgtagtatca gttctgaaga cgclctccat ggcttctctg gcctgtatca gcatgtatag atacattgcc attactaaac ctttaaccta taatactctg gttacacctt ggagactacg cctgtgtatt ttctgtattt ggctatactc gacctgggc ttctgcctt ccttttcca ctggggcaaa cctggatatac atggagatgt gtttcagtg tgtggcggagt cctggcacac cgactcctac ttacacctgt tcatcgtgat gatgtatat gccccagcag ccttattgt ctgcttcacc tatttcaaca tcttcgcct ctgccaacag cacacaaagg atatcagcga aaggcaagcc cgttccagca gccagatgg ggagactggg gaagtgcagg cctgtcctga taagcgctat gccatggctc tgtttcgaat cactagtga ttttacatcc tctggttgc atatatcacc tacttctgt tggaaagctc cactgggccac agcaaccgt tgcactcct ctgaccacc tggcttgcta ttagtaaacg ttcttgcaac tgtgtaattt atagtctct caacagtga ttccaaagag gactaaagc cctctcaggg gctatgtga cttcttggc aagtcagact acagccaacg acccttacac agttagaagc aaaggccctc ttaatggatg tcatatctga	Homo sapiens
261	3858	G Protein- Coupled Receptor GPR21	NP_005285.1	MNSTLDGNQS SHPCLLAFG YLETVNFCLL EVLIIVFLTV LIISGNIIV FVPHCAPLLN P HHTSYFIQT MAYADLFVGV SCVPSLSLL HHPLPVEESL TCQIFGFWS VLKSVSMASL ACISIDRYIA ITKPLTYNTL VTPWRLRLCI FLIWLYSTLV FLPSFFHWGK PGYHGDVFWOW CAESWHTDSY FTLFIVMMLY APAALIVCFY YFNIFRICQQ HTKDISERQA RFSSQSGETG EVQACPDKRY AMVLFRTSV FYILWLPYII YFLESSTGH SNRFASFLT WLAISNSFCN CVIYSLNSV FQRLKRLSG AMCTSCASQT TANDPYTVRS KGPLNGCHI	Homo sapiens
262	3859	G Protein- Coupled Receptor GPR22	NM_005295	atgtgttttt cctccattct ggaatacaac atgcagtctg aatctaact tacaagtgcga A gatgacattg atgacatcaa caccaatag tacaacacc tatcatatcc gtaagcttt caagtgtctc tcaccggatt tcttatgta gaaattgtgt tgggacttgg cagcaacctt actgtattgg tacttactg catgaaatcc aactaatca actctgtcag taacattatc acaatgaatc ttcattact tgatgtaata atttgtgtgg gatgtattcc tctaactata gttatccttc tgccttcaat ggagagtaac actgctctca ttgtctgttt ccattgaggt tgtgtatctt ttgcaagtgt ctcaacagca atcaacgttt ttgtatcac ttggacaga tatgacatct ctgtaaaaacc tgcaaaccca attctgacaa tgggcagagc tgaatgtta atgatatacca ttggattttt ttctttttt tcttctctga ttcttttat tgaggtaaat	Homo sapiens

263	3859	G Protein- Coupled Receptor GPR22	NP_005286.1	<p>tttttcagtc ttcaaaagtgg aaatacctgg gaaaacaaaga cacttttatg tgtcagttaca aatgaatact acactgaact gggaatgtat tatcacctgt tagtacagat cccaatatc tttttcactg ttgtagtaaat gttaatcaca tacaccaaaa tacttcaggc tcttaatatc cgaataggca caagattttc aacaggggcag aagaagaaag caagaaagaa aaagacaatt tctctaacca caaacatga ggctacagac atgtcacaaa gcagtggtgg gagaaatgta gtctttgggtg taagaacttc agtttctgta ataattgcc cccggcgagc tgtgaaacga caccgtgaac gacgagaaag acaaaagaga gtcttcagga tgtctttatt gattatttct acatttcttc tctgtggac accaatctct gtttaataa ccaccatttt atgtttaggc ccaagtgacc ttttagtaaa attaagattg tgttttttag tcatggctta tggaaacaact atatttcacc ctctattata tgcattcact agacaaaaat ttcaaaagggt cttgaaaaagt aaaaatgaaa agcgagttgt ttctatagta gaagctgac ccctgcctaa taatgctgta atacacaaact ctgtgataga tcccaaaaga acaaaaaaa ttacctttga agatagtga ataagagaaa aacgttttagt gcctcagggt gtacacagat ag</p>	Homo sapiens
264	3860	G Protein- Coupled Receptor SLC/MCH1	NM_005297	<p>atgttgtgtc ctccaagac agatggctca gggcactctg gtaggattca ccaggaaaact A catggagaag ggaagaggga caagattagc aacagtgaag ggaggagaa tgggtgggaga ggattccaga tgaacggtgg gtcgctggag gctgagcatg ccagcaggat gtcagttctc agagcaaaag ccatgtcaaa cagccaaagc ttgctccttc tgtccccagg atcacctcct cgacgggga gcatctccta catcaacatc atcatgcctt cgggtgttcgg caccatctgc ctcctgggca tcatcgggaa ctccacggtc atcttcgagg tegtgaagaa gtccaagctg cactgggtga acaacgtccc cgacatcttc atcatcaacc tctcggtagt agatctcctc ttctcctgg gcatgccctt catgatccac cagctcatgg gcaatggggt gtggcacttt ggggagacca tgtgcacct catcacggcc atggatgcca atagtcagtt caccagcacc tacatcctga ccgccatggc cattgaccgc tacctggcca ctgtccacc catctcttc acgaagtcc ggaagccctc tgtggccacc ctggtgatct gctcctgtg ggcctctctc ttcatcagca tcaacctgt gtggctgtat gccagactca tcccctccc aggaggtgca gtgggctgcg gataacgct gcccaacca gacactgcca tctactggtt caccctgtac cagtttttcc tggcctttgc cctgcctttt gtgtcatca cagccgcata cgtgaggatc ctgcagcgca tgaagtcctc agtggccccc gctcccagc cagcatccg gctgaggaca aagagggtga ccgcacagc catgcccac tgtctggtct tctttgtgtg ctggggcacc tactatgtgc tacagctgac ccagttgttc atcagccgcc cagccctcac ctttgtctac ttatacaatg cggccatcag cttgggctat gcaacagct gctcaaccc ctttgtgtac atogtgcctc gtgagacgtt ccgcaaacgc ttgggtcctgt cgggtgaagcc tgcagccag ggcagccttc gcgctgtcag caagcctcag acggctgacg aggagaggac agaaagcaaa</p>	Homo sapiens

269	3862	G Protein- Coupled Receptor GPR3	NP_005272.1	gacctacact actattcaga gacaacagtg acacggacct atgtgatgct ggccttagtg tggggaggtg ccttgggcct ggggctgctg cctgtgctg cctggaactg cctggatggc ctgaccacat gtggcggtgt ttatccactc tccaagaacc atctggtagt tctggccatt gccttcttca tgggtgtttg catcatgtg cagctctacg cccaaatctg ccgcatcgtc tgccgccatg ccagcagatg tgcctttcag cggcacatgc tgccctgctc ccactatgtg gccacccgca agggcattgc cacactggcc gtgggtgctg ggccttttgc cgcctgctgg ttgcccttca ctgtctactg cctgctgggt gatgccact ctccacctct ctacacctat cttaccttgc tccctgccac ctacaactcc atgataaacc ctatcatcta cgccttccgc aacaggatg tgcagaaagt gctgtgggt gctgtgctg gctgttctc ttccaagatc cccttccgat cccgctccc cagtgatgc tag	Homo sapiens
270	3863	G Protein- Coupled Receptor GPR31	NM_005299	MMWGAGSPLA WLSAGSGNVN VSSVGPREGP TGPAPLPSP KAWDVVLCIS GTLVSCENAL P VVAIVGTPA FRAPMFLVVG SLAVADLLAG LGLVLHFAAV FCIGSAEMSL VLVGLAMAF TASIGSLLAI TVDRYLSLYN ALTYSETTV TRTYVMLALV WGGALGIGLL PVLAWNCLDG LTTCGWVYPL SKNHLWLAI AFFMVFIML QLYAQICRIV CRHAQIQIALQ RHLLPASHYV ATRKGIATLA VVLGAFAACW LPFTVYCLLG DAHSPPLYTY LTLLPATYNS MINPIIYAFR NQDVQKVLWA VCCCCSSKI PFRSRSPSDV atgccattcc caaactgctc agccccagc actgtggtg ccacagctgt ggggtgtcttg A ctgggggctgg agtgtgggtc gggctgtgctg ggcaacgcgg tggcgctgtg gaccttctg ttccgggtca ggggtgtgaa gccgtacgtc gctacactgc tcaacctggc cctggctgac ctgtgtgttg ctgctgctc gcttctctc cccgcttct cctgagacct ccaggcttgg catctgggct gtgtgggtc ctggggcctg cgttctctg tggacctcag ccgacagcgtg gggatggcct tectggcgc cgtggcttgg gacccgtacc tccgtgtggt ccacctcgg cttaagggtca acctgctgc tctcaggcg gccctggggg tctcgggacct cgtctggctc ctgatggctg cctcacctg cccgggcttg ctcactctc aggcgcgcca gaactccacc agtgccaca gtttctactc cagggcagac gctccttca gcatcatctg gcaggaagca ctctctgccc ttcagtgtgt cctccccctt gctctctcag tgttctgcaa tgcaggcatc atcagggctc tccagaaaag actccgggag cctgagaaac agcccaagct tcagcgggccc caggcactgg tcaacttgg gtgtgtgctg ttgtctctg gcttctgccc ctgcttctg gccagagtcc tgatgcacat ctccagaaat ctggggagct gcagggccct ttgtgcagtg gtctatacct cggatgtcac gggcagcctc acctacctgc acagtgtcgt caacccccg gtatactgt tctccagccc cacttcagg agctccatc ggagggtctt ccacacctc cgaggcacaag ggcaggcagc agagccccca gatttcaacc ccagagactc ctattcctga LLLAACLPFL AAFVLSLQAW HLGRVGCWAL RELDLRSV GMAFLAAVAL DYLRVWHPR LKNVLLSPQA ALGVSGLVWL LMVALTCPGL LLSAAQNST RCHSFYSRAD GSFIIWQEA LSCLQFVLPF GLIVFCNAGI IRALQKRLRE PERQPKLQRA QALVTLLVVL FALCFLPCFL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHSVWNPV VYCFSSPTFR SSYRRVFFHTL RGKQAAEPP DFNPRDSYS	Homo sapiens
271	3863	G Protein- Coupled Receptor GPR31	NP_005290.1	MPFNCASAPS TVATAVGVV LGLECGLLG LGLVGLVGLV GMAFLAAVAL DYLRVWHPR LKNVLLSPQA ALGVSGLVWL LMVALTCPGL LLSAAQNST RCHSFYSRAD GSFIIWQEA LSCLQFVLPF GLIVFCNAGI IRALQKRLRE PERQPKLQRA QALVTLLVVL FALCFLPCFL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHSVWNPV VYCFSSPTFR SSYRRVFFHTL RGKQAAEPP DFNPRDSYS	Homo sapiens
272	3864	G Protein- Coupled Receptor	NM_005282	ctgttgacct tactatctc tgttgccttc tggaggtccta gaaatgcca gcaactccac A ccacattgcc tgaactttcc aacactccct agctgcgctg tgcctatct caacacttcc tcatgtattt cttgtgtctt ctagaacatt cccccgcat tattacttca atatggctac	Homo sapiens

GPR4

acatacttc taattgcctt gcaaacaccatc tccttctcâc cattgcccag cgatgcttcc
 gtctctccca taaactctc cggagaccacaa tttttgtgtc accccatac tccctcgttg
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 gaactcaagt gaagggaat cagggcagac tgcctggagg agtgcagcca gaagggttgg
 gaagaagggt tgggacaaga agaaagggtta ttatctcatt cattcaacag aggtttatgt
 agggcactgt gctgggtggg gctgggggaca caacaatgac tgaggcgagcc tggccttgcc

273	3864	G Protein- Coupled Receptor GPR4	NP_005273.1	ttcacaggc tcaccataca caagtaataata aaaaatatgt aatgtttgga attgct MGNHTWEGCH VDSRVDHLFP PSLYIFVIGV GLPTNCLALW AAYRQVQQRN ELGVYLMNLS P IADLLYICTL PLWVDYFLHH DNWIHGPSC KLFGEFFYTN IYISIAFLCC ISVDRYLAVA HPLRFARLRR VKTAVAVSSV VWATELGANS APLEHDELFR DRYNHTFCFE KFPMEGWVAV MNLRYFVGF LFPWALMLS YRGILRAVRG SVSTERQEK A KIKRLALSLL AIVLVCFAPY HVLLLSRSAL YLGRPWDCGF EERVFSAYHS SLAFTSLNCV ADPILYCLVN EGARSDVAKA LHNLRLFLAS DKPQEMANAS LTLETPLTSK RNSTAKAMTG SWAATPPSQG DQVQLKMLPP AQ	Homo sapiens
274	3866	G Protein- Coupled Receptor GPR6	NM_005284	atgaacgcga gcgcgcctc gctcaacgac tcccagggtg tggtagtggc ggccgaagga A gcgcgcgcgc gcgcacacgc agcagggggc ccggacacgc gcgaatgggc accccctgct gcgcgcgcgc taggagccgc ccggcgagct aatgggtctc tggagctgtc ctgcgagctg tcggctgggc caccgggact cctgtgcca gcggtgaatc cgtgggacgt gctcctgtgc gtgtcgggga cagtgatgc tggagaaaac gcgctgtg gcgctccat cgcgtccact ccggcgctgc gcacgcccc gctcgtgctg ttaggcagcc tggccaccgc tgacctgtg gcgggctgtg gctcatctt gcactttgtg ttccagtact tgggtccctc ggagactgtg agtctgctca cgggtggcct cctcgtggcc tccctgcgc cctctgtcag cagcctgctg gccattacgc tggaccgcta cctgtccctg tataacgcgc tcacctatta ctgcgcgcgc acctgttg gcgtgcaact cctgctgccc gccacttggc ccgtgtccct aggcctgggc ctgctgcccc tgctgggctg gaactgcctg gcagagccgc ccgctgtcag cgtggtgcgc ccgctgggc gcagccacgt ggctctgctc tccgcgcctc tcttcattgt cttcggcatc atgctgcacc tgtacgtgc catctgccag gtggtctggc gccacgcgca ccagatcgcg ctgcagcagc actgcctggc gccaccccc ctgcgtgcca ccagaaaagg tgtgggtaca ctggctgtgg tgctgggcac ttctggcgcc agctggctgc ccttcgccat ctattgcgtg gtgggcagcc atgaggaccc ggcggtctac acttacgcca cctgtctgcc cgcacacctc aactccatga tcaatcccat catctatgcc ttccgcaacc aggagatcca gcgcgcctg tggtcctctg tctgtggctg ttccagctcc aaagtgcctc ttctgttccag gtctccacgc gaggtctga	Homo sapiens
275	3866	G Protein- Coupled Receptor GPR6	NP_005275.1	MN5AASLND SQVVVAAEG AAAAATAAGG PDTGEMGPPA AAALGAGGGA NGSLELSSQL P SAGPPGLLLP AVNPWDVLLC VSGTVIAGEN ALVVALLAST PAIRTPMFVL VGSLATADLL AGCGLIHV FQYLVPSSTV SLLTVGFIVA SFAASVSSLL AITVDYLSL YNALTYYSRR TLIGVHLLA ATWTVSLGLG LLPVLGNCL AERAACSVR PLARSHVALL SAAFFMVFGI MLHYVRICQ VWRHAHQIA LQHCCLAPPH LAATRKGVGT LAVLGTFGA SWLPFAIYCV VGSHEDPAY TYATLLPATY NSMINPIYA FRNQEIQRAL WLLCGCFQS KVPFRSRSPS EV	Homo sapiens
276	3867	G Protein- Coupled Receptor GPR7	NM_005285	atggacaacg cctcgttctc ggagccctcg ccgcaccaac catcggggcc ggacccggcg A ctgagctgct ccaacgcgc gactctggcg ccgctggcg ccgctgtggc ggtggctgta ccagttgtct acgcggtgat ctgcgcctgt ggtctggcg gcaactccgc cgtgctgtac gtgtgtctgc ggggccccgc catgaagacc gtcaccaacc tgttcatcct caacctggcc atcgccgacg agctcttcac gctggtgctg ccatcaaca tgcgcgactt cctgtgtcgg cagtgggcct tcggggagct catgtgcaag ctatcgtggt gtagaacacc gtacaacacc	Homo sapiens

277	3867	G Protein- Coupled Receptor GPR7	NP_005276.1	<p>ctgataaactt ggcgcgcgc agcctga</p> <p>MDNASFSEP PANASGPDPA LSCSNASTLA PLPAPLAVAV PVYAVICAV GLAGNSAVLY P</p> <p>VLLRAPRMKT VTNLFILNLA LADELFTLVL PINIADFLLR QWPFGEIMCK LIIVAIQYNT</p> <p>FSSLYFLTM SADRYLWLA TAESRRVAGR TYSAARAVSL AVWGIVTLV LPEAVFARLD</p> <p>DEQRRQCQL VFPQPEAFW RASRLYTLVL GPAIPVSTIC VLYTTLLCRL HAMRLDSHAK</p> <p>ALERAKKRV FLVVAILAVC LLCWTPYHLS TVVALTTDLP QTPLVIAISY FITSLTYANS</p> <p>CINPFLYAFI DASFRNLRQ LITCRAAA</p>	Homo sapiens
278	3868	G Protein- Coupled Receptor GPR8	NM_005286	<p>atgcaggcgc ctgggcaccc agagccctt gacagcagg gctccttctc cctcccaag A</p> <p>atgggtgcc actctctca ggacaatggc actggcaca atgccacctt ctcgagcca</p> <p>ctgcccgttc tctatgtcc cctggccgc gtgtactccg ggatctgtgc tctggggctg</p> <p>actggcaaca cgcgcgtcat cctgttaac ctaaggcgc ccaagatgaa gacggtgacc</p> <p>aacgtgtca tectgaacct ggcgtgcgc gacgggctct tcaagctggt actgcccgc</p> <p>aacatgcgc agcacctgct gcagtactgg ccttcgggg agctgctctg caagctggg</p> <p>ctggccgtcg accactaaa catcttctcc agcatctact tctagccgt gatgagcgtg</p> <p>gaccgatacc tgggtggtgt ggcaccctg aggtcccgc acatgccctg ggcacacctac</p> <p>cggggggcga aggtcgccag cctgtgtgtc tggctggcg tcaaggctct ggtctgccc</p> <p>ttctctctt tgcgtggcgt ctacagcaac gagctgcagg tcccaagctg tgggctgagc</p> <p>ttcccgctgc ccgagcgggt ctggttcaag gccagccgtg tctacacttt ggtcctgggc</p> <p>tctgtctgc cegtgtgcac catctgtgtg ctctacacag acctcctcg caggctgcgg</p> <p>gccgtgcgc tccgctctgg agcaaggct ctaggcaagg caaggcggaa ggtgaccgtc</p> <p>ctggtcctcg tctgtctggc cgtgtgctc cctgtgctga cgccttcca cctggcctct</p> <p>gtcgtggccc tgaccacgga cctggcccg accccactgg tcatcagtat gctctacgtc</p> <p>atcaccagcc tcaagtacgc caactcgtgc ctgaacccct tctctacgc ctttctagat</p> <p>gacaacttc ggaagaactt ccgacgata ttgcggtgct ga</p> <p>MQAAGHPEPL DSRGSFSLPT MGNVSDNG TGHNTFSEP LPFLYVLLPA VYSGICAVGL P</p> <p>TGNTAVILVI LRAPKMTVT NVFILNLA DGLFTLVLPV NIAEHLQYW PGEILLCKLV</p> <p>LAVDHYNIFS SIYFLAVNSV DRYLVVLATV RSRHPWRTY RGAIVASLCV WLGVTVLVLP</p> <p>FFSFAGVYSN ELQVPSGLS FPWPERVWFK ASRYVTLVIG FVLVCTICV LYTDLLRRLR</p> <p>AVRLRSKAKA LGKARRKVT LVLVVLAVCL LCWTFHLAS VVALTTDLPQ TPLVISMYSY</p> <p>ITSLTYANSC LNPFLYAFLD DNFKNFRSI LRC</p>	Homo sapiens
279	3868	G Protein- Coupled Receptor GPR8	NP_005277.1		Homo sapiens

280	3869	G Protein- Coupled Receptor HM74	NM_006018	cgccacttgg ctggagcatt cactaggcga ggcgctccat cggactcaact agccgcactc A atgaatcggc accatctgca ggcacacttt ctggaatatg acaagaagaa ctgctgtgtg ttccgagatg acttcattgc caaggtgttg ccgcgggtgt tgggctgga gtttatcttt gggcttctgg gcaatggcct tgcctctgtg atttctgtt tccacctcaa gtcttgga tccagccgga ttttctgtt caacctggca gtactgact ttctactgat catctgcttg ccgttcgtga tggactacta tgtgcggcgt tcagactgga actttggga catcccttcg cggtcggtgc tcttcatgtt tgccatgaac cgccaggga gcatcatctt cctcacggtg gtggcggtag acaggtattt ccgggtgttc catccccc accccctgaa caagatctcc aatggacag cagccatcat ctcttgctt ctgtgggga tcaactgttg cctaacagtc cacctcctga agaagaagt gctgatccag aatggccctg caaatgtgtg catcagcttc agcatctgcc ataccttcg gtggcacgaa gctatgttcc tccctggagt cctcctgccc ctgggcatca tccgttctg ctccagccga attatctgga gctgcggga gagacaaatg gaccggcatg ccaagatcaa gagagccatc accttcatca tgggtgtggc catcgtcttt gtcatctgct tccctccag cgtggtgtg cggatccgca tcttctggct cctgcacact tcgggcacgc agaattgtga agtgaccgc tcgggtggac tggcgttctt tatcacttc agcttcacct acatgaacag catgctggac cccgtgtgtt actacttctc cagcccatcc tttcccaact tcttctccac ttgatcaac cgctgcctcc agaggaagat gacaggtgag ccagataata accgcagcac ggcgtcgtg ctccacaggg accccaaca aaccagagcc gctccagag cgttaattgc caactccgtt gaccatcggg gccctcttta tctgggccc acctcaata accttccaa gaaggacat tgtcaccaag aaccagcatc tctggagaaa cagttggct gtgcatcga gtaattgcac tggactcggc ctaagggttc ctggaacttc cagattcaga gaattcgtat taggaaact gtggcagatg agtgggagac tgggtgcaag gtgtgaccac aggaatcctg gaggaacaga gactaaagct tctaggcatc tgaacttgc ttcatctctg acgctgcag gactgaagat gggcaaatg tagcggttc gctgagcag agttggagcc agagatctac ttgtgacttg ttggccttct tcccacatct gctcagact ggggggggtc cagctcctcg ggtgatatct agcctgcttg tgagctctag cagggataag gagagctgag attggaggga attgtgttgc tccctggagga agcccaggca tcattaaaca agccagtagg tcaactggct tccgtggacc aattcatctt tcagacaagc tttagagaaa tggactcagg gaagagactc acatgctttg gttagtatct gtgttcccg tgggtgtaat aggggattag cccagaaagg gactgagcta aacagtgtta ttatgggaaa ggaatggca ttgctgcttt caaccagca ctaatgcaat ccattcctct cttgtttata gtaacttaag ggttgagcag ttaaaacggc ttcaggatag aaagctgttt cccacctgtt tegtttacc attaaaaagg aaactgcct ctgccccacg ggtagagggg gtgcacgttc ctctgggtc cttcgcttgt gtttctgtac ttacccaaaa tctaccactt caataaat ttagtaggaga caaaaaaa a	Homo sapiens
281	3869	G Protein- Coupled Receptor HM74	NP_006009.1	MNRHLQDHF LEIDKNCVV FRDDFIKVL PPVLGLEFIF GLNGGLALW IFCFLKSWK P SSRIEFLNLA VADFLLIICL PFVMDYYVRR SDWNFGDIPC RLVLFEAMN RQGSIIFLT VAVDYFRVW HPHALNKIS NWTAAIISCL LWGITVGLTV HLLKKLLIQ NGPANVCISE SICHTFRWE AMFLLEFLLP LGIILFCSAR IWSLRQROM DRHAKIKRAI TFIMVVAIVE VICFLPSVV RIRIFWLLHT SGTQNCSEVYR SVDLAFFITL SFTYMSMLD PVVYFFSSPS FPNFFSTLIN RCLQRKMTGE PDNNRSTSV E LTGDPNPKTRG APEALMANS EPWSPSYLGP	Homo sapiens

282	3870	G Protein- Coupled Receptor OGR1	NM_003485	TSNNHKKGH CHQEPASLEK QLGCCIE	atgggggaaca tcaactgcaga caactcctcg atgagctgta ccatcgacca taccatccac A cagacgtgg ccccggtggt ctatgttacc gtgctggtgg tgggcttccc ggccaactgc ctgtccctct acttcggcta cctgcagatc aagcccgga agcagctgg cgtgtacctg tgcaacctga cggtgccga cctcttctac atctgtctgc tggccttctg gctgcagtac gtgctgcagc acgacaactg gtctcacggc gacctgtcct gccaggtgtg cggcatcctc ctgtacgaga acatctacat cagcgtgggc ttctctgtct gcatctcgtt ggaccgtctac ctggctgtgg cccatccctt ccgcttccac cagttccgga cctgaaagg gccggtcggc gtcagcgtgg tcatctgggc caaggagctg ctgaccagca tctacttctt gatgcacgag gaggtcatcg aggcagagaa ccagcacgcg gtgtgctttg agcactaccc catccaggca tggcagcgcg ccatcaacta ctaccgcttc ctggtgggct tctcttccc catctgctg ctgctggcgt cctaccaggg cactctgcgc gccgtgcgc ggagccacgg caccagaa agccgcaagg accagatcca gggctggtg ctacgacgc tggatcatct cctggcctgc ttctgacctt accacgtgtt gctgctggtg cgcagcgtct ggagggccag ctgcgacttc gccaaaggcg ttttcaacgc ctaccacttc tccctcctgc tcaccagctt caactgcgtc gccgaccccg tgctctactg ctctctcagc gagaccaccc accgggacct ggcccgcctc cggggggcct gcttgccctt cctcacctgc tccaggaccg gccggggccag ggaggcctac ccgctgggtg cccccgagc ctccgggaaa agcggggccc aggtgagga gcccgagctg ttgaccaagc tccaccggc ctccagacc cctaaactgc cagggtcggg cgggttcccc acgggcaggt tggcctag	Homo sapiens
283	3870	G Protein- Coupled Receptor OGR1	NP_003476.1	MGNITADNSS MSCTIDHTIH QTLAPVYVT VLWGFPAAC LSIFYGLQI KARNELGVYL P GNLTVADLFY ICSLPFWLQY VLIQDNWSHG DLSCQVCGL LYENIYISVG FLCCISVDRY LAVAHPRFH QFRTLKAAG VSVIWAKEI LYSIYFLMHE EVIEDENQHR VCFEHYPIQA WQRAINYYRF LVGFLFPICL LLASYQGLR AVRRSHGTQK SRKDQIQRLV LSTWVIFLAC FLPYHVLILV RSWEASCD E AKGVFNAYHF SILLTSFNCV ADFVLYCFVS ETHRDLARL RGACLAFLTC SRTGRAREAY PLGAPEASGK SGAQGEPEL LTKLHPAFQT PNSPGSGGFP TGRLA	Homo sapiens	
284	3921	Prostacyclin Receptor	NM_000960	agcaagtga ggcacagacg caggggacag gagagcctgg gcaagactgg agagcccaga A cctgggatgg cggattcgtg caggaacctc acctacgtgc ggggctcgtt ggggcccggc accagcacc tgatgttcgt ggcgggtgtg gtgggcaacg ggtggccctt gggcatcctg agcgacggc gaccggcgc cccctcgcc ttccggtgtg tggtaaccgg actggcgcc accgacctgc tgggacaccg ctctctgagc ccggccgtgt tctgggcta tgcgcgcaac agctccctgc tgggctcgtg ccgaggcgcc cccgccctt gcatgacctt cgccttcgcc atgaccttct tgggctcgtg gtcctatgct atctctttt ccatggcctt ggagcgctgc ctggcgctga gccaccctta cctctacgag cagctggagc ggccccgctg cggccgctg ggcgtgccag ccatctacgc ctctcgctc ctctctcgtg cgtctgcccc gctggggcctg ggccaacacc agcagtactg ccccgagc tgggtcttcc tccgcatgag ctggggccag ccggggcggc cgccttctc gctggcctac gccggccttg tggccctgct ggtggtgctc atcttctctt gcaacggctc ggtcacccct agcctctgcc gcatgtaccg ccagcagaag cgccaccagg gctctctggt tccacggcg cgcaccggag aggcagaggtt ggaccacctg	Homo sapiens	

285	3921	Prostacyclin Receptor	NP_000951.1	ct	atcctgtggt cccatcatgac agtgggtcatg gccgtgtgct cccgtcctct cagatccgc tgcttcaacc aggtgtgctg cccatgacagc agcagtgaaga tggggacccct ccttgcttc cgcttctacg ccttcaacc cactctgac cccgtggctct tcatectttt ccgaaggct gtcttccagc gactcaagct ctgggtctgc tgcctgtgcc tcgggacctgc ccacggagac tcgcagacac ccttttccca gctgcctcc gggagagggg acccaagggc cccctctgct cctgtgggaa aggaggggag ctgcgtcct ttgtcggctt gggcagaggg gcaggtggag cccttgcttc ccacacagca gtccagcggc agcgcctggg gaacgtcgtc caaagcagaa gccagcgtg cctgctcct ctgctgacat ttcaagctga cccgtgctc tctgctctgt cttcgggoga caggagccag aaaaacagg acatggctga tggctggga tctggaacc ttggccccca aactctggg ccgacagct gctgttctc ctgcggcagg gcagtcgtg ctggctctgg gaagagagt agggacagag gaaacgttta tcctggagtg cagaaagaa ggttctctca aataaacag tggcctggc gacctgctc ggcctggat tccccatca tctcattgtc taaatattta gaaggcggag agttccag agcttctgt acagtcaggt ctgctctggt ctgggtgctg gctccaatct gcgtccact aggaggccca actgccacc ccaagtccc aggggatggc cctccccctc taccagcca ctccaagagc cagccccct tctgctccac aaaaaccaca gttattggaa agctcctctg ccttcccttg ccgtggtcc cccaccaggc ttgggagccc tggcatccca agggggcaac gggagggaagg ggaggctgct gcatgtggg tgatgacgta ggacatgtc ttggtacaaa agggcctga gacattccac ct	Homo sapiens
286	3923	Prostaglandin n D2 Receptor	U31099		LLGTSFLSPA VFVAYARNSS TLMEVAGVVG NGIALGILSA RRPAPSAFA VLVTGLAATD P LSHPYLYAQL DGPRCARLAL PAIYAFCVLF CALPLLGLGQ HQYCPGSMC FLMRWAQPG GAAFLAYAG IVALIVAAIF LCNGSVTLSL CRMYRQQRKH QGSLGPRPRT GEDEVHLLIL LALMTVMVAV CSLPLTIRCF TQAVAPDSSS EMGDLLAFRF YAFNPILDPW VFILFRKAVF QRLKLWVCCCL CLGPAHGDSQ TPLSQLASGR RDPAPSAFV GKEGSCVPLS AWGEGQVEPL PPTQSSGSA VGTSSKAEAS VACSLC gctgtgcaac ctggcgcca tgcgcaacct ctatgcgatg caccggcggc tgcagcggca A cccgctcc tgcaccagg actgtgccga gccgcgcgcg gacggaggg agcgtccc tcagccctg gaggagctgg atcactcct gctgctggcg ctgatgaccg tgctcttcac tatgtgtct ctgcccgtaa tttatcgcg aagcagaaga cctccgagcc ttgcgatttc tatctgtgat gaaaaacagg acctctgaag aagcagaaga cctccgagcc cctcgatttc tatctgtgat ttcaattgtg gaccctgga tttttatcat tttcagatct ccagatattc ggatatttt tcacaagatt ttcattagac ctcttaggta caggagccgg tgcagcaatt ccactaacat ggaatccagt ctgtgacagt gtttttccat ctgtggtaag ctgaggaaata tgtcacattt tcagtcaag aacca MKSPFYRCQN TTSVEKNSA VMGGVLFSTG LLGNLLALGL LARSGLGWS RRPLRPLPSV P FYMIVCLTV TDLLGKCLLS PVVLAAYAQN RSLRVLAPAL DNSLCQAF AFMSFFGLSST LQLLAMALEC WLSLGHFFFY RRHITLRIGA LVAPVWSAFS LAFCALPFMG FGKFVQYCPG TWCFIQMVHE EGSLSVLGYS VLYSSLMALL VLATVLCNLG AMRNLYAMHR RLQRHPRSCT RDCAEPRADG REASQPLEE LDHLLLLALM TVLFTMCSLP VTYRAYYGF KDVKENRST EEAEDLRALR FLSVISIVDP WIFIFRSPV FRIFHKIFI RPLRYSRCS NSTNMESL	Homo sapiens
287	3923	Prostaglandin n D2 Receptor	Q13258			Homo sapiens

288	3924	Prostaglandin E Receptor EP1	NM_000955	<p>gggggaggca gggctgagc gccggtgatg gggaccac atcccaggca gtgcgggcaac A</p> <p>ccttgagcc tgacatgac ccttgaggc cctcaacct gagectggc ggcgagcgca</p> <p>ccacatgac ggcgccccg gtcccaaca cgtcgccgt gccgctgc ggcgcttcgc</p> <p>ccgctgccc catcttccc atgacgtgg gcgcccgtc caactgtg gcgctggcgc</p> <p>tgctgggca ggcgccccg cgcctggac gcccgctc gccaccacc ttctgtgtg</p> <p>tcgtggcag ccttgagcc accgacctgg cgggccaagt gatccccggc gcgctggtc</p> <p>tgctctgta cactggggg cgcgctccg cgggccccg ctgccactc ctggcggtt</p> <p>gcatggtctt cttcgccctg tgcccgctg cgcgccccg ttgcatggc ttggagcgt</p> <p>gcgtggggt cagcgccgc ctgctccag cgcgccccg ctcggtccc cgcgcgcgc</p> <p>tgcgctggc cgcggtggc gcggtggcc ttgccccg gctgctggc ctggcgccg</p> <p>tgggccgcta tgagctgcag taccgggca cgtggtgct catcgccctg ggtcccccg</p> <p>gcgctggcg ccaggcact cttgctggc tcttggccc cctcgccctg gtccgctcc</p> <p>tgcccgctt ggtgtgcaac acgctcagc gctggccct gcctcgccc cgtggcgac</p> <p>gccgctccc acggcctccc cggcctcag ccccgacag cggcgctgc tgggggggc</p> <p>acggacccc ctcggcctcc gctcgctcc cctcgctcc cgttcggcc tccacctct</p> <p>ttggcggtc tggagagac ggctcgccac gcagagctc cggccacgac ttggagatg</p> <p>tgggccagct tgcggtatc atggtggtg cgtgcactc ctggagccca atgctggtg</p> <p>tggtggcgt ggcctcgcc aaccagatc tggaccttg ggtgtacat ctactggcc</p> <p>cgtgcgctt tgcctcctg cttcgctct tggccccg gcgcgagcc aaggcgcc</p> <p>agccgctgt gcgcaactg cttcgctct cggccccg ggcgagcc agtccccgc</p> <p>ccgcggggt gggcctaaca ctagcgctc taagcacaac cagagcccc agtccccgc</p> <p>acagcgccct cagccactc taagcacaac cagagcccc agtccccgc</p> <p>tgggctggc ccaggtgac ggcgagagc cttgggaat aaaaagccat tctg</p> <p>MSPCGPNLS LAGEATTCAA PWVNTSAVP PSGASPALPI FSMTLGAVSN LLALALLAQ P</p> <p>AGLRRRRSA TFLFVASL LATDLAGHVI PGALVRLYT AGRAPAGGAC HFLGGCMVFF</p> <p>GLCPILLGCG MAVERCVGT RPLHARVS VAPARIALAA VAAVALAVAL LPLARVGRYE</p> <p>LQYPTWCFI GLGPPGWRQ ALLAGLFASL GLVALLAALV CNTLSGLALH RARWRRRRR</p> <p>PPASGPDSR RRGAGHPRS ASASSASSIA SASTFFGSR SSGSARRARA HDVEMVQLV</p> <p>GIMVSCICW SPMVLVALA VGGWSSTSLQ RPLFLAVRLA SWNQLDPWV YILLRQAVLR</p> <p>QLRLPLPPRA GAKGPGAGL LTPSAWEASS LRSSRHSGLS HF</p> <p>ggggcgccgt cggcgccgt ggtgcggaa ggggctctg gatttcggtc cctccccctt A</p> <p>ttctctgag tctcggaacg ctcagctct cagacctct tctcccagg taaaggccgg</p> <p>gagaggagg cgcactctt ttccaggac ccacacctg gcaatggctc caatgactcc</p> <p>cagctgagg actcgagac gcgacagtgg cttccccag gcgaagccc agccatcagc</p> <p>tcgctcatg tctcgcccg ggtgctggg aacctcatg cactggcgt gctggcgcc</p> <p>cgtggcggg ggagcgtgg tgagcgcgc ggcgcagga gctccctctc cttgttccac</p> <p>gtgctggtga ccagctggt gttcaccgac ctgctcgga cctgcctcat cagccccagt</p> <p>gtactggctt cgtacgcgc gaaccagacc cgtgtggcag ttggccccga gacccgcgc</p> <p>tgacactact tgccttctc catgacctc ttacgcttg ccacgatgct catgctctc</p> <p>gccatggccc tggagcgcta cctctgac cttctaccc acttctacca gcgccccgc</p> <p>tcggcctccg gggcgctggc cgtgctgctt gtcctctatg cagtctccct gctcttctgc</p>	Homo sapiens
289	3924	Prostaglandin E Receptor EP1	NP_000946.1	<p>AGLRRRRSA TFLFVASL LATDLAGHVI PGALVRLYT AGRAPAGGAC HFLGGCMVFF</p> <p>GLCPILLGCG MAVERCVGT RPLHARVS VAPARIALAA VAAVALAVAL LPLARVGRYE</p> <p>LQYPTWCFI GLGPPGWRQ ALLAGLFASL GLVALLAALV CNTLSGLALH RARWRRRRR</p> <p>PPASGPDSR RRGAGHPRS ASASSASSIA SASTFFGSR SSGSARRARA HDVEMVQLV</p> <p>GIMVSCICW SPMVLVALA VGGWSSTSLQ RPLFLAVRLA SWNQLDPWV YILLRQAVLR</p> <p>QLRLPLPPRA GAKGPGAGL LTPSAWEASS LRSSRHSGLS HF</p> <p>ggggcgccgt cggcgccgt ggtgcggaa ggggctctg gatttcggtc cctccccctt A</p> <p>ttctctgag tctcggaacg ctcagctct cagacctct tctcccagg taaaggccgg</p> <p>gagaggagg cgcactctt ttccaggac ccacacctg gcaatggctc caatgactcc</p> <p>cagctgagg actcgagac gcgacagtgg cttccccag gcgaagccc agccatcagc</p> <p>tcgctcatg tctcgcccg ggtgctggg aacctcatg cactggcgt gctggcgcc</p> <p>cgtggcggg ggagcgtgg tgagcgcgc ggcgcagga gctccctctc cttgttccac</p> <p>gtgctggtga ccagctggt gttcaccgac ctgctcgga cctgcctcat cagccccagt</p> <p>gtactggctt cgtacgcgc gaaccagacc cgtgtggcag ttggccccga gacccgcgc</p> <p>tgacactact tgccttctc catgacctc ttacgcttg ccacgatgct catgctctc</p> <p>gccatggccc tggagcgcta cctctgac cttctaccc acttctacca gcgccccgc</p> <p>tcggcctccg gggcgctggc cgtgctgctt gtcctctatg cagtctccct gctcttctgc</p>	Homo sapiens
290	3925	Prostaglandin E Receptor EP2	NM_000956	<p>ggggcgccgt cggcgccgt ggtgcggaa ggggctctg gatttcggtc cctccccctt A</p> <p>ttctctgag tctcggaacg ctcagctct cagacctct tctcccagg taaaggccgg</p> <p>gagaggagg cgcactctt ttccaggac ccacacctg gcaatggctc caatgactcc</p> <p>cagctgagg actcgagac gcgacagtgg cttccccag gcgaagccc agccatcagc</p> <p>tcgctcatg tctcgcccg ggtgctggg aacctcatg cactggcgt gctggcgcc</p> <p>cgtggcggg ggagcgtgg tgagcgcgc ggcgcagga gctccctctc cttgttccac</p> <p>gtgctggtga ccagctggt gttcaccgac ctgctcgga cctgcctcat cagccccagt</p> <p>gtactggctt cgtacgcgc gaaccagacc cgtgtggcag ttggccccga gacccgcgc</p> <p>tgacactact tgccttctc catgacctc ttacgcttg ccacgatgct catgctctc</p> <p>gccatggccc tggagcgcta cctctgac cttctaccc acttctacca gcgccccgc</p> <p>tcggcctccg gggcgctggc cgtgctgctt gtcctctatg cagtctccct gctcttctgc</p>	Homo sapiens

291	3925	Prostaglandin E Receptor EP2	NP_000947.1	<p> tgcgtccgc tgctggacta tgggcagtag gtcagtagt gcccgggac ctggtgcttc atccggcac ggcggaccg ttacctgcag ctgtacgcca cctgtgctg gcttctcatt gtctcgtgc tgcctgcaa cttcagtgct attctcaacc tcatccgcat gcaccgcga agccggagaa gccgctgcgg acctccctcg ggcagtggcc gggcgggccc cggggccgcg aggagagggg aaagggtgtc catggcgagg gagacggacc acctcattct cctggctac atgaccatca ccttcgcgt ctgctccctg ccttcgaca ttttgcata tatgaatgaa acctctccc gaaaggaaaa atgggacctc caagctctta ggtttttatc aattaatcca ataattgacc ctgggtctt tgccatcctt aggcctcctg ttctgagact aatgcgttca gtcctctgtt gtcggatttc attaagaaca caagatgcaa cacaacctc ctgttctaca cagtcagatg ccagtaaaaca ggctgacctt tgagggtcagt agtttaaaag ttcttagtta tatagcatct ggaagatcat tttgaaattg ttccctggag aaatgaaaa agtgtgtaaa caaatgaag ctgccctaatt aaaaaggagt atacaacat ttaagctgtg gtcaaggcta cagatgtgct gacaaggcac ttcatgtaaa gtgtcagaag gactacaaa acctaccctc aatgagcatg gtacttgccc tttagaggaa caatcgctcg cattgaagat ccagctgcct attgatttaa gctttcctgt tgaatgacaa agtatgtggt ttgttaatt gttgaaacc ccaaacagtg actgtacttt ctattttaat ctgtctacta ccgttataca catatagtgt acagccagac cagattaaac ttcatatgta atctctagga agtcaatatg tggaagcaac caagcctgct gtctgtgat cacttagcga acccttattt tgaacaaatg agttgaaaat cataggcac ttctactgtg atgtttgtgt atgtggaggt actctcatca ctacagtatt actcttacaa gagtgactc agtgggttaa catcagtttt gtttactcat cctccaggaa ctgcaggtca agtgtcagg ttatttattt tataatgtcc atatgctaag agtgcataag aagactttag gaatggttct ctcaacaaga aataatgaa atgtctcaag gcagttaatt ctcattaata cttctattat cctatttctg ggggagagatg tacgtggcca tglatgaagc caaatattag gcttaaaaaac tgaaaaatct ggttcattct tcagatatatc tggaacctt ttaaagtga tattggggcc atgagtaaaa tagattttat aagatgactg tgttgtagca aaattcatct gtctatat tttaggggg aacatggttt gactcatctt atatgggaaa ccatgtagea gtgagtcata tcttaataata tttctaaatg tttggcatgt aaatgtaaac tcagcatcaa aatatctcag tgaatttgca ctgtttaatc atagttagt tgtaaaactca tctgaaatgt tacaanaata aactataaaa ca MGNASNDQS EDCETROWLP PGESPAISSV MFSAGVLGNL IALALLIARRW RGDVGCsAGR P RSLSLFHV L VTELVTDL L GTCLISPV L ASYARNQTLV ALAPESRACT YFAFAMTFFS LATMLLFLAM ALERYLSIGH PFYQRRVSA SGGLAVLPVI YAVSLLFCSL PLDDYGQYVQ YCPGTWC FIR HGRTAYLQLY ATLLLLIIVS VLACNFSVIL NLIRMHRRSR RSRCGPSLGS GRGPGARRR GERVSM AET DHILLIIMT ITFAVCSLPF TIFAYMNETS SRKEKWDIQA LRELSINSII DPWFALIRP PVLRLMRSVL CCRISLRTQD ATQTSCTSQS DASKQADL atgagaaaaa gaagactcag agagcaagag gaatttggg gaaattaa A </p>	Homo sapiens
292	3926	Prostaglandin E2 Receptor EP3	L32662	<p> accagaggtt tccagagag gaaggcgtgg ctccctccc ggccagtagg ccttggcgcc A gccgcggccg cgttcccagc agcgagtag ggcgcggtct gcgccccga ccatgggggg cagccccagc ccagccgcgg taaacgccga cctccgcgc gcgccgcgc gcgtctgccc </p>	Homo sapiens
293	3926	Prostaglandin E2 Receptor EP3	NM_000957		Homo sapiens

294	3926	Prostaglandin E2 Receptor EP3	NP_000948.1	<p>ac</p> <p> cctccccgtg cggctctctg gacgccatcc cctctctacc tcgaagccaa catgaaggag acccggggtc acggaggga tgcccccttc tgccccgcg tcaaccact ctacacaggc atgtggggcg cggagcgttc cggcaggcg cggggcaacc tcacgcgcc tccagggtct ggcgaggatt gcgatcggt gtccgtggcc ttcccgatca ccatgctgt cactgggttc gtgggcaacg cactggccat gctgctcgtg tgctgcgcg accgcgccg ggagagcaag cgaaagaagt ccttctctgt gtgcctcggc tgctggcgc tcaccgacct ggtcggggcag ctctcacca ccccggtcgt catcgtcgtg tacctgtcca agcagcgttg ggagcacatc gaccgctcg ggcggctctg cacttttttc ggcctgacca tgactgtttt cgggctctcc tcgtgttca tcgccagcg catggccgtc gacggggcg tggccatcag ggcgcgcac tggatgcga gccacatga gacgctgcc acccgcgctg tgctgctcg cgtgtggctg gcggtgctcg ccttgcctt gctgcgctg gctggcgtg gccagtacac cgtccagtgg ccggggacct ggtgcttcat cagcacggg cgagggggca acgggactag ctcttcgcat aactgggca accttttctt cgcctctgcc ttgctcttc tggggtctt ggcgctgaca gtcacctttt cctgcaacct ggcacacctt aaggccctg tgtcccgtg ccgggccaag gccacggcat ctcagtcag tgcccagtgg ggcgcgcatc cgaccgagac ggccattcag ctatgggga tcatgtcgt gctgtcgtc tgctgtctc cgtctcctg atgatgttg aaaaatgatc tcaatcagac atcagttgag cactgcaaga cacacacgga gaagcagaaa gaatgcaact tctcttaat agctgttcgc ctggcttcac tgaaccagat ctggatcct tgggtttacc tgcgttaag aaagatcctt cttcgaagt ttggccagat gaaaaaaga agactcagag agcaagagat ggggcctgat ggaaggtgtt ttgtcatgc atggaggcag gtccccagga ctgtgtcag ttctcatgat agagaacctt gcaagtcca gctaaagtga tgacttgaag ataatctgc ctaaccttg gatgaagtat ctgtgaacta tttagacagc agatgaggaa ttttgggaa attaaacctt gctttctgc caggatcaca tcactggaag ctccatgact cctttttgt aaaaagaaa aaaaacacag aaacacccac ctccaaact attctctttt actctctccc ccagccac ccccaaatat aactgttatc cagaagctgt tatgtcctgt ttccatacat gtttttgtac tttaactata ttacataca tcaattaaac ttatgtccta ttgttttgtg aatttatatt tggtatata ttatcatatg taaaatttgc atttttttat tgaataattat gttctgtgag atttatccac attgaaacat ggagctctaa atcgtaatt ttaaccgcta tagagtattc cataattga ataaagcata attgtttgt ac </p>	Homo sapiens
295	3927	Prostaglandin E4 Receptor EP4	NM_000958	<p> cggcagagcc tcacactga acgtgtcct ccgcagacg agaccggcg gcaatgcaa A gctgggactc gtctttgaag gaaaaaaat agcagtaga aaatccagca ccaattctca ctgacccatc ccgtgcacc tctgttcc caagttttg aagctggca actctgacct cgggtgtccaa aaatcgacag ccaatgagac cggctttgag aagccgaga ttggcagtt </p>	Homo sapiens

296	3927	Prostaglandin E Receptor EP4	NP_000949.1	<p> tccagactga gcaggacaag gtgaaagcag gttggaggcg ggtccaggac atctgaggcg tgacctggg ggctcgtgag gctgccaccg ctgctgcgcg tacagacca gcccttgcaat ccaaggctgc gcaccgccag ccaatacat gtccactccc ggggtcaatt cgtccgcctc cttgagcccc gaccggctga acagcccagt gaccatccc ggggtgatgt tcatcttcgg gggtggtggc aacctggtg ccatcgtggt gctgtgcaag tgcgcaagg agcagaagga gacgaccttc tacacgtgg tatgtgggt gctgtgcaac gacctgttg gcaattttgt ggtgagccc gtgaccatcg ccacgtacat gaaggccaa tggccccggg gccagccgct gtgcgagtac agcaccttca ttctgctctt cttcagcctg tccggcctca gccatcatcg cgccatgagt gtcgagcgtt acctggccat caaccatgcc tatttctaca gccactacgt ggacaagcga ttggcgggcc tcacgctctt tgcagtcctat gcgtccaaag tgcctctttg cgcgctgcc aacatgggtc tcggtagctc gcggctgcag taccagaca cctggtgctt catcgactgg accaccaacg tgacggcgca cgcgcctac tcctacatgt acgcggtt cagctccttc ctcattctcg ccaccgtcct ctgcaacgtg cttgtgtgcg gcgcgtgct ccgcatgcac cgccagtcca tgcgcgcgac ctgcgtggcg accgagcgc accacgcggc cgcgccgccc tcggttgctt cccggggcca ccccgctgccc tccccagcct tgcgcgcct cagcgacttt cggcgccgccc ggagcttcgg ccgcctgcgc ggcgcgcgaga tccagatggg catcttactc attgccacct ccttggtggt gctcatctgc tccatccgc tctggtgctg agtattcgtc aaccagttat atcagccaag ttggagcgga gaagtcagta aaaaaccaga tttgaggccc atccgaattg cttctgtgaa ccccatccta gacccctgga tatatacct cctgagaaaag acagtgtcca gtaagcaat agagaagatc aatgcctct tctgcgcgat tggcggtgcc cgcaggagc gctccggaca gcactgctca gacagtcaaa ggacatcttc tgccatgtca ggccactctc gctccttcat ctcccgggag ctgaaggaga tcagcagtac atctcagacc ctctgccag acctctact gccagacctc agtgaataatg gccttggagg caggaatttg cttccaggtg tgcctggcat gggcctggcc caggaagaca ccacctcact gaggactttg cgaatatcag agacctcaga .ctcttcacag ggtcaggact cagagagtgt cttactggtg gatgagctg gtgggagcgg cagggtcggg cctgccccctc aggggagctc cctgcaagtc acatttccc gtgaacact gaacttatca gaaaaatgta tataataggc aaggaagaa atacagtact gtttctggac ccttataaaa tccgtgtcaa tagacacata catgtcacat ttagctgtgc tcagaaggcg tatcatca LAVTDLGLT LVSPTIATY MKQWPGGQF VTIPAMFIF GVGNLVAIV VLCKSRKEQK ETTFTYTLVCG P INHAYFYSHY VDKRLAGLTL FAVYASNVLF CALPNMGLGS SRLQYPTDTC FIDWTTNVTA HAAYSIMYAG FSSFLIATV LCNVLVCGAL LRMHRQFMRR TSLGTEQHHA AAAASVASRG HPAASPALPR LSDFRRRSF RRIAGAEIQM VILLIATSV VLICSIPIV RVFNQLYQP SLREVSKNP DLQAIRIASV NPILDPIYI LIRKTVLSKA IEKIKLFCR IGGSRRRSG QHCSDSQRTS SAMSGHSRSF ISRELKEISS TSQTLLPDL LPLDSENGLG GRNLLPGVPG MGLAQEDTTS LRLRISETS DSSQGQDSES VLLVDEAGGS GRAGPAPKGS SLQVTFPSET LNLSKCI </p>	Homo sapiens
297	3928	Prostaglandin F2-alpha Receptor	NM_000959	<p> ggcgcggggc gccatggcac accgagcggc tccgtcttct gtcctcaga gagccggct A ggcgccctgg gatgacaaga tgcctggact gcaatcctgc acagttttga gaggagatg acttgagtgg ttggctttta tctccacaac aatgtccatg aacaattcca acagctagt </p>	Homo sapiens

gtctcctgca gctgcgcttc tttcaaacac aacctgccag acgaaaaacc ggctttccgt
atctttttca gtaatcttca tgacagtggg aatcttgtca aacagccttg ccatcgccat
ttctatgaag gcataacaga gatttagaca gaagtccaag gcacgttttc tgcttttggc
cagcgccctg gtaatcactg atttcttttg ccatctcacc aatggagcca tagcagtatt
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cattgagcgg tgtattggag ttcaaaaaacc aatatttcat tctacgaaaa ttacatccaa
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tgtctttaag aatctctata agcttgccag tcaatgctgt ggagtgcagt tcatcagctt
acataatttg gagcttagtt ccattaaaaa ttctttaaag gttgctgcta ttcttgagtc
accagttgca gagaaatcag caagcaccta gcttaatagg acagtaaatc tgtgtggggc
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atttatgctt tgagtgaatc atctgttgag gtctaatgccc tctacttggc ctatttgcca
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tctaccatgg ataatgcaaa caaacccgaag ctacatgcca atgatatggg caaagaatat
tggcaaaaag tgttttacct tgagccatta ttgtgtcag agaacaaga aacagaatc
aataataaa ttcaaaagct atctgcagct agtgtgtttc ttctttacac acatatatac
acagacatca gaaaattctg ttgagagcag gttcattaaa ttgttaagt ggcataattc
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tattataaca attaactagg agatcaagag ataataatct ctcccaaat ttccaataa
taattgagac tttttctttg ctgttttgtg taattcaacc aaaaagaatt caatacccat
tcaaatgtc ctaggcttat cagaaattag ggaaggtagt cctgtcttat aataggaaaa
tgtatttctg tataagattt cttgtcttcc ataaaaatg ggattcattt aaaaattaat
ctttccctgt taggtgatt tcagattctc taggaataat ggtgaagtaa ccagaagact

298	3928	Prostaglandin F2-alpha Receptor	NP_000950.1	MSMNSKQLV SPAAALLSNT TCQTENRLSV FFSVIFMTVG ILSNSLAIAI LMKAYQRFQ P	Homo sapiens
				KSKASFLLLA SGLVITDFFG HLINGAIAVE VYASDKEWIR FDQSNVLCSE FGICMVFSGL	
				CPLLLGSVMA IERCIGVTKP IFHSTKITSK HVKMMLSGVC LFAVFIALLP ILGHRDYKIQ	
				ASRTWCFYNT EDIKDWEDRF YLLIFSFLGL IALGVSLCN AITGITLLRV KFKSQHROG	
				RSHHLEMVIQ LLAIMCVSCI CWSPELVMTA NIGINGNHSL ETCETTLFAL RMATWNQILD	
				PWVYILLRKA VLKNLYKLAS QCCGVHVISL HIWELSSIKN SLKVAIAISE PVAEKSAST	
299	4051	Proteinase-Activated Receptor 2	NM_005242	cgggccgccc tggggaggcg cgagcagag gctccgattc gggcgagggt agaggctgac A	Homo sapiens
				tttctctcgg tgcgtccagt ggagctctga gtttcgaatc ggtggcggcg gattccccgc	
				gcgccccggcg tcggggcttc caggaggatg cggagcccca gcgcggcgtg gctgctgggg	
				gcgcgcaccc tgcctagcgc ctctctctcc tgcagtgcca ccatccaaag aaccaataga	
				tcctctaaag gaagaagcct tattggtaag gttgatggca catccacgt cactggaaaa	
				ggagttacag ttgaacacagt cttttctgtg gatgagtttt ctgcatctgt cctcactgga	
				aaactgacca cggctcttcc tccaattgtc tacacaattg tgtttgtggt gggtttgcca	
				agtaacggca tggccctgtg ggtctttctt ttccgaacta agaagaagca cctgctgtg	
				attacatgg ccaatctggc ctggctgac ctctctctg tcactgtggt ccccttgaag	
				attgcctatc acatacatgc caacaactgg atttatgggg aagctctttg taatgtgctt	
				attggctttt tctatggcaa catgtactgt tccattctct tcatgacctg cctcagtggt	
				cagaggtatt gggctcatcg gaaccccatg gggcactcca ggaagaaggc aaacattgcc	
				attggcatct ccttggaat atggctgctg attctgctgg tcaccatccc ttgtatgtc	
				gtgaagcaga ccatcttcat tctgcccctg aacatcacga cctgtcatga tgttttgctt	
				gagcagctct tgggtggaga catgttcaat tacttctct ctctggccat tggggtcttt	
				ctgttccag ccttctcac agcctctgcc tatgtgctga tgatcagaat gctgcgatct	
				tctgccatgg atgaaaactc agagaagaaa aggaagaggg ccatcaaac cattgtcact	
				gtcctggcca tgtacctgat ctgcttcat cctagtaacc ttctgcttgg ggtgcattat	
				tttctgatta agagccagg ccagagccat gttatctctc tgtacattgt agccctctgc	
				ctctctaccc ttaacagctg catcgacccc ttgtctatc actttgtttc acatgatttc	
				agggatcatg caaagaacgc tctcctttgc cgaagtgtcc gcaatgtaaa gcagatgcaa	
				gtatccctca cctcaagaa acactccagg aaatccagct ctactcttc aagttcaacc	
				actggttaaga cctcctatgg agttttccag gtccctcagat ggggaattgca cagtaggatg	
300	4051	Proteinase-Activated Receptor	NP_005233.2	tggaacctgt ttaatgttat gaggacctgt ctggtatttc ctaatcaaaa aggtctcacc	Homo sapiens
				acataccacc g	
				GAAILLAASL SCSGTIQGTN RSSKGRSLIG KVDGTSHTVG KGVTVETVFS P	
				MRSPSAWLL GLTLTVFLPI VYTIVFVUGL PSNGMALWVF LFRKKKHPA VIYMANLALA	
				VDEFSASVLT	

301	4052	Proteinase- Activated Receptor 3	NM_004101	<p>Receptor 2</p> <p>DLLSVIWFPL KIAYHIHANN WIYGEALCNV LIGFFYGNMY CSILFMTCLS VQRYWTVNP MGHSRKKANI AIGISLAIWL LILLVTIPLY VVKQIFIPA INITTCCHDLV PEQLLVGDMF NYFLSLAIGV FLFPAFLTAS AYVIMIRMLR SSAMDENSEK KRKRAIKLIV TVLAMYLICF TPSNLLLVVH YFLIKSQQS HVYALYIVAL CLSTLNSCID PFVYFVSHD FRDHAKNALL CRSVRTVKQM QVSLTSKHS RKSSSYSSSS TTVKTSY</p> <p>cctgcctgcg cggcacaggt gagcaaacct ctacagacag accaaggcct ccatcttgctg A ctgacacatg gaactgaggt gaaattgtgc tccatgatct tacagatttc ataacgttta agagacggga ctcaggtcat caaaatgaaa gccctcatct ttgcagctgc tggcctcctg cttctgttgc ccactttttg tcagagtggc atggaaaaatg atacaaaacaa cttggcaaaag ccaaaccttac ccattaagac ctttctgtga gctcccccac attcttttga agagtcccc ttttctgcct tggaaaggctg gacaggagcc acgattactg taaaaattaa gtgccctgaa gaaagtgcct cacatctcca tgtgaaaaat gctaccatgg ggtacctgac cagctcctta agtactaaac tgatacctgc catctacctc ctgggtgttg tagttggtgt cccggccaat gctgtgaccc tgtggtgct tttcttcagg accagatcca tctgtaccac tgtattctac accaacctgg ccattgcaga ttttcttttt tttcttcagg accagatcca tctgtaccac tgtattctac catctcaatg ggaacaactg ggtatttggg gaggtcctgt gccggggccac cacagtcatc ttctatggca acatgtactg tccattctg ctccctgcct gcatcagcat caaccgctac ctggccatcg tccatccttt cactaccgg ggctgcccac agcacaccta tgccttggtg acatgtggac tgggtgggc aacagttttc ttatatagtc tgcatttttt cactatgaa caggaatatt atctgttcca gccagacatc accacctgcc atgatgttca caacacttgc gagtcctcat ctccctcca actctattac tctatctcct tggcattcct tggattctta attccatttg tcttatacat tctatgctat gcaagccatca tccggacact taatgcatac gatcatagat ggttgggta tgttaaggcg agtctcctca tcccttgatg ttttaccatt tgcttttgct caagcaatat tatcttatt attcaccatg ctaactacta ctacaacaac actgatggct tatattttat atatctcata gctttgtgcc tgggtagtct taatagtgc ttagatccat tcttttatt tctcatgtca aaacccagaa atcactccac tgccttaccct acaaaatagt gaaatgatct tagagaacaa gacagccat cacagagaac gctgttttc aagaacaaca taagcatagt gcaaggagct ccatttccga gctcctaaga aatagcttc aaaggtcaaa cattacaata gcatagtag ttgtttgtgt tgtttttgag actgagtctc actttatcac ccagactggc gtgcagtggc actatcttgg ctcattgcaa cctctgcctc ccaggtcagc ctccaagta gctgggatta caccaccatg cccagctact aaaaataact gtatttttag tagagacggg gtttcacct gtgaccagg ctggtcttga actcctgacc tcaagtgatc ttcgggctc agctcccaa agtctggag tacaggcggt agccactgag ccagccagca ttagtaattt ttaaaaacac ttatcatgta ttttaaaaat gttaatgcag gagaaaagat atcaaacctc tatggaaaat gacatttcca tttgccttat tgcattctca agctctttaa atcaccatct tccctatttc</p>	Homo sapiens
302	4052	Proteinase- Activated Receptor 3	NP_004092.1	<p>Proteinase- Activated Receptor 3</p> <p>MKALIFAAAG LLLLPFCQ SGMENTNNL AKPILPIKTF RGAPPNSFEE FPFSALEGWT P GATIVKIKC PEESASHLV KNATMGYLTSLSTKLIPAI YLIVFVVGVP ANAVTLWMLF FRTRSICTTV FYTNLAIAADF LFCVTLPPFKI AYHLNGNNWV FGEVLCRATT VIFYGNMYCS ILLACISIN RYLAIVHPFT YRGLPKHTYA LVTCGLWAT VFYMLPFFFI LKQEYVLVQP DITTCCHDVHN TCSSSPFQL YYFISLAFFG FLIPFLIY CYAAIIRTLN AYDHRWLWYV</p>	Homo sapiens

303	4090	G Protein- Coupled Receptor GPR17	NM_005291	KASLLILVIF TICFAPSNI LIIHHANYYY NNTDGLYFIY LIALCLGSLN SCLDPFLYFL MSKTRNHSTA YLTK	ccgacaccca cggcgaggaga tcaactgctg cccgcagac ccctgtccct tcctcccgga A ccagcagcta gagcagtgcc aacggaggtt ggtgggctgg atccagaag ccccaagag agatgctgaa actctcagc tctgactcca gccaagcatt gaatggcctt gaagtggctc ccccaggtct gatcaccaac ttctccctgg ccacggcaga gcaatgtggc caggagacgc cactggagaa catgctgttc gctcctctct acctctgga tttatccctg gctttagttg gcaataccct ggctctgtgg cttttcatcc gagaccacaa gtccgggacc ccggccaacg tgttccctgat gcatctggcc gtggccgact tgtcgtgctg aatcgcatgc cgtctcacccg tgtgtctacca cttctctggg aaccactggc catttggga aatcgcatgc cgtctcacccg gcttccctctt ctacctcaac atgtacgcca gcatctactt cctcacctgc atcagcgcg accgtttccct ggccattgtg caccgggtca agtccctcaa gctccgacgg cccctctacg cacacctggc cgtgtccctc cgtgtgggtgg tgggtgctgt ggccatggcc ccgctgctgg tgagcccaca gaccgtgcag accaaccaca cgggtggtctg cctgcagctg taccgggaga aggcctccca ccatgcccctg gtgtccctgg cagtggcctt cacttcccg ttcatcacca cggtcacctg ctacctgctg atcatccgca gcctggcgga gggcctgctg gtggagaagc gcctcaagac caaggcagtg cgcattgatc ccatagtgtt ggcctatctt ctggtctgct tcgtgcccta ccacgtcaac cgtccgctct acgtgctgca ctaccgacg catggggcct cctggccac ccagcgcac ctggcccctg caaacgcgat cactcctgc ctacacagcc tcaacggggc actcgacccc atcatgtatt tcttcgtggc tgagaagtct cgccacgccc tgtgcaactt gctctgtggc aaagggtca agggcccgc cccagcttc gaagggaata ccaacgagag ctcgctgagt gccaagtcag agctgtgagc gggggggccc gtccaggccg agcgcagact gtttaggact cagcagaccc agcaagagc atctgcctt tccccagcca cctccccagc aagcaacctg aaatctcagc agatgcccac catttctta gatcgccctg tctcaaccca taaaaaggaa gaactgacaa aggggatcca tcggccaccc ctctgcaggg gcttgtgatg gctacaatgg ctcctagaca ctcaacgact tcatctgtgg cagggagaga ggaggccgga agaacaaccc ctgaacaatg gaggccttct ttccccgcta ggtccccagc ctccttcccg ctacagaatc gctcatcggc gaggtcagc agaaagaccc tgaaggcagg ctgcaaatga cccagaagag ggaactggga gtccctgggtg ggaaggggag ggagtctcaa tactcctttg cagcgcaagg tactctgagt cccctctgta gtgcctctgc cagacacaca ctgcctgagt tgaagagaca caggccacac atttcaggct ggttgccagc ggaagtcagc actcacggcc tgcggggact cagcacagct ctggattctg gatctcct gctgtaaccc cagcacaaag cctgcaaccc ccagagctct ttgacaggct cccaggcctc ccagtccctg acaagcatgt gcagtcacgg gagctcagct caggccaggc ctgggctgtg cactgcctc ccactgaccc agaccactt cctccagaga ggcctctctc cgcctgagct atttccctg ctagtgtgca gatatttccc taacatgtcc ttttttgat ttgtttgtac ggaccataaa tataactgta gctttaagac taataaaaaa	Homo sapiens
304	4090	G Protein- Coupled Receptor GPR17	NP_005282.1	MSKRSWAGS RKPPREMLKL SGDSSSQSMN GLEVAPPGLI TNFSLATAEQ CQGETPLENM P LFASFYLLDF ILALVNTLHA LWLFIRDHKS GTPANVFLMH LAVADLSCVL VLETRLVYHF SGNHWPFGEI ACRLTGFLFY LNMVASYFL TCISADRFIA IVHPVKSLLK RRLPYAHLAC AFLWVVVAVA MAPLLVSPQT VQTNHTVVCL QLYREKASHH ALVSLAVAFI FPFITVTICY	Homo sapiens	

305	4254	Rhodopsin	NM_000539	<p> LLIIRSLRQG LRVEKRLKTK AVRMIATVLA IFLVCFVPTH VNRSVYVLHY RSHGASCATQ PILALANRIT SCLTSINGAL DPIMYFFVAE KERHALCNLL CGKRLKGPPP SFEGKTNES LSAKSEL agagtcatacc agctggagcc ctgagtggct gagctcagcc ctctgcagca ttcttgggtg A ggagcagcca cgggtcagcc acaagggcc aagccatgaa tggcacagaa ggcctaact tctacgtgcc cttctccaat gcagcgggtg tggtagcagc ccccttcag taccacagt actacctggc tgagccatgg cagttctcca tgctggccgc ctacatgttt ctgtgatcg tgctgggctt ccccatcaac ttctcaccgc tctacgtcac cgtccagcac aagaagctgc gaacgctct caactacatc ctgctcaacc tagccgtggc tgacctctc atggtcctag gtggcttcac cagcacctc tacacctctc tgcatggata ctctgtctc gggccacag gatgcaattt ggagggttc ttgcccacc ttggcggtga aattgacctg tggctcttgg tggctctggc catcgagcgg tacgtgggtg tgtgtaagcc catgagcaac ttccgcttcg gggagaacca tgccatcatg gggtgtgctt tcaactgggt catggcgtg cctgcgcgcg caccctact cgcgggtgg tccaggtaca tcccggagg cctgcagtc tctgttgaa tccactacta cagctcaag cgggaggtca acaacgagtc tttgtctc tacatgtctg tggctcactt caccatccc atgattatca tctttttctg ctatgggcag ctgtcttca cgtcaaggga ggccgctgc cagcagcagg agtcagccac cacacagaag gcagagaagg aggtcacccg catgtctatc atcatgttca tgcgttctc gatctgtgg gtgcctacg caagcgtggc attctacatc ttcaccacc aggtcttcca ctctggctcc atcttcata ccatccagc gttcttggc aagagcgcg ccatctacaa cctgtctac tatatcata tgacaagca gttccggaac tgcatgtca ccaactctg ctgcggcaag aaccactgg gtgacgatga ggctctgtc accgtgtcca agacggagac gagccagggt gcccggcct aagacctgcc taggactctg tggccgacta taggcgtctc ccatccctca cacttccc cagccacagc catccacca ggagcagcgc ctgtgcagaa tgaacgaagt cacataggct ccttaatttt tttttttttt ttaagaaata ataatgagg ctctcactc acctgggaca gcttgagaag ggacatccc caagacctac tgatctggag tcccacgttc ccaaggcca gcgggatgtg tgccctcct cctcccaact catctttcag gaacacgagg attcttgctt tctggaaaag tgtccagct tagggataag tgtctagcac agaattgggc acacagtagg tgcctaataa atgtgtgatg gatgcaggaa ggaatggagg aatgaatggg aaggagaac atatctatcc tctcagacc tgcagacc agcaactcat acttggtctaa tgatatggag cagttgtttt tccctccctg ggcctcactt tcttctcta taaaatggaa atcccagatc cctgggtcctg ccgacacgca gctactgaga agacaaaag aggtgtgtgt gtgtctatgt gtgtgtttca gaatttcta aatagcaaga agctgtacag attctagtta atgttgtgaa taacatcaat taatgtaact agttaattac tatgattatc acctcctgat agtgaacatt ttgagattgg gcattcagat gatggggttt caccacact tggggcaggt tttaaaaat tagctaggca tcaaggccag accagggtctg ggggttgggc tgtaggcagg gacagtcaca ggaatgcagg atgcagtcac cagacctgaa aaaaacac tgggggaggg ggcggtgaa ggccaaagtcc ccaatgaggg tgagattggg cctgggtgtct caccctagt gtggggcccc aggtccctg cctcccttc ccaatgtggc ctatggagag acaggtcttt ctctcagcct ctggaagcca cctgctcttt tgctctagca cctgggtccc agcatctaga gcattggagcc tctagaagcc atgtcacc cccacattt aattaacagc tgagtcctctg atgtcctct </p>	Homo sapiens
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306	4254	Rhodopsin	NP_000530.1	<p>tactcgaaga gcttagaaac aaagagtggg aaattccact gggcctacct tccttgggga</p> <p>tggtcatggg cccagtttc cagtttccct tgccagacaa gcccatcttc agcagttgct</p> <p>agtcattct ccattctgga gaattctctc caaaaagctg gccacatctc tgaggtgtca</p> <p>gaattaagct gcctcagtaa ctgctccccc ttctccatat aagcaaacgc agaagctcta</p> <p>gctttacca gctctgctg gagactaagg caaattgggc cattaataagc tcagctctcta</p> <p>tggttgatt aacggtggtg ggttttgttg ctttcacact cttatccacag gatagattga</p> <p>aactgccagc ttccacctga tccctgaccc tgggatggct ggattgagca atgagcagag</p> <p>ccaagcagca cagagtcccc tggggctaga ggtggaggag gcagtctctg gaatgggaaa</p> <p>aacccca</p>	Homo sapiens
307	4284	Retinal G Protein-Coupled Receptor RPE	NM_002921	<p>agagacagct gggccactgg cagtgaggga gagtgaggat ggcagagacc agtgccctgc</p> <p>ccactggctt cggggagctc gaggtgctgg ctgtgggat ggtgctactg gtggaagctc</p> <p>tctccggtct cagcctcaat acctgacca tcttctctt ctgcaagacc ccggagctgc</p> <p>ggactccctg ccactactg gtgctgagct tggctcttgc ggacagtggg atcagccctga</p> <p>atgcccctgt tgcagccaca tccagccttc tccggcgtc gccctacggc tcggacggct</p> <p>gccaggctca cggcttccag ggcttttga cagcgttgc cagcatctgc agcagtgcag</p> <p>ccatgcgatg ggggcgttat caccactact gcacccgtag ccagctggcc tggaaactcag</p> <p>ccgtctctct ggtgctcttc gtgtggctgt cttctgctt ctgggcagct ctgccccttc</p> <p>tgggttgggg tcaactatgac tatgagccac tggggacatg ctgcaccctg gactactcca</p> <p>agggggacag aaacttcaac agcttctct tcaacctatg cttcttcaac ttgcccctgc</p> <p>ccctcttcat cagcatcact tctacagtc tcatggagca gaaactgggg aagagtggcc</p> <p>atctccaggt aaacaccact ctgccagcaa ggacgtgct gctcggctgg gggccctatg</p> <p>ccatcctgta tctatacgca gtcacgcag acgtgacttc catctcccc aaactgcaga</p> <p>tggtgcccgc cctcattgac aaaaatgtgc ccacgatcaa tggcatcaac tatgcccctg</p> <p>gcaatgagat ggtctgcagg ggaatctggc agtgcctctc accgcagaag agggagaagg</p> <p>accgaaccaa gtgagcctgc caccctggag tgagcccccag gccaggaggc tgttccagga</p> <p>gtcctgccc cagcctcgg tggccaagcc cagacactca cccaccttc ccagtggccc</p> <p>cgtggatcct ggtcctaggg tggacacagg attcagaaa acaccaggct gcacagaaag</p> <p>agccagatgg acctgagtgt cgtcacagc cccctacact caaggctgag aggcctcagg</p> <p>aaagtcatc ctttttaaaa ataataata atgtaagggg gtacagtga gttttgttac</p> <p>atggatagat tgcctagtg tgaagtctgg gcttttagt taaccatcac cctaataata</p> <p>tacgttgtag ccattaagtt atttctcat cctcaccccc tcccaccttg tcaccttct</p> <p>gagctcccaa tgtctattat tccacactcc atgtccactg gtacacatta tttagtcccc</p> <p>acttacaagt gagaacatgt ggtatttgac ttcca</p>	Homo sapiens
308	4284	Retinal G Protein-	NP_002912.1	<p>MAESALPTG FGELEVLAVG MVLVEALSG LSLNTLTIES FCKTPELRTP CHLLVLSIAL</p> <p>ADSGISLNAL VAATSSLLRR WPGSDGCQA HGFQGFVTAL ASICSSAAIA WGRYHHYCTR</p>	Homo sapiens

309	4321	Coupled Receptor RPE	NM_002980	Secretin Receptor	SQLAWN SAVS LVLFWLSSA FWAALPLL GW GHYDYEPLGT CCTLDYSKGD RNFTSFLFTM SFFNFAMPLF ITITSYSIME QKLGKSGHLQ VNTTLPARIL LLGWGPYAIL YLYAVIADVT SISPKIQMVP ALIAKMVPTI NAINYALGNE MVCRGIWQCL SPQKREKDRRT K	Homo sapiens
					acgaggcccg ccggagcccg ggaccctcg ccgggcccgtg agtcccgcag cgggcagagg A gcacgggcag gggagcgtcg gggcccctc ggggaacgtcg cgggaccatc gcgtcccccac ctgtcgcccg ccgctcagca gctactactg ccggtctcgc tcgcccgcgc cgcgcactcg actggagccc ttcccgcact atgtgacgtg ctacaagtgc tgtgggaaga gcaagaccag tgctcgagg aactctccag agagcagaca ggagacctcg gcacggagca gccagtgcc ggttgtagg ggatgtggga caacataagc tgctggccct ctctgtgcc gggccggatg gtggaggtgg aatgcccgag attcctccg atgctacca gcagaaatgg ttccctgttc cgaaactgca cacaggatgg ctggtcagaa acctcccca ggctaactc ggctgtggc gttaaatgta acgactcttc caacgagaag cggcactct acctgctgaa gctgaaagtc atgtacacc tgggctacag ctccctccctg gtcatgctcc tggtcgccc tggcatcctc tgtgctttcc ggaggctcca ctgcactcg aactacatcc acatgcacct gttcgtgtcc ttcatccttc gtgcccgtgc caactctatc aaggacgcgc tgcctcttc ctcagatgat gtcacctact gcgattccga caggcgggc tgcaagctgg tcatggtgct gtccagttac tgcatcatgg ccaactactc ctggctgctg gtggaggcc tctacctca cacactcctc gccatcctct tcttctctga aagaaagtac ctccagggat ttgtggcatt cggatggggt tctccagcca tttttgttg tttgtgggtc attgccagac actttctgga agatgttggg tgctgggaca tcaatgccaa cgcattccatc tgggtggatca ttctgtgtcc tgtgatcctc tccatcctga ttaatttcat ccttttcata aacattctaa gaatcctgat gagaaactt agaacccaag aaacaagagg aatatgaagtc agccattata agcctctggc caggctccat ctcctgctga tccccctct tggcatccac tacatcgtct tgccttctc ccagaggac gctatggaga tccagctgtt ttttgaacta gccctgggtc cattccaggg actggtgggtg gccgtcctct actgcttctt caatggggag gtgcagctgg aggttcagaa gaagtggcag caatggcacc tccgtgagtt cccactgcac cccgtggcct ccttcagcaa cagcaccaag gccagccact tggagcagag ccagggcacc tgcaggacca gcatcatctg agaggctgga gcagggtcac ccacggacag agaccaagag aggtcctcg aggtctggc actgctgtg gacagccagt cttcccagca gacacctgt gtctccttc agctgaagat gccctcccc aggccttga ctcttccgaa gggatgtgag gcaatgtggg gcaggacaag ggcctgggat ttggttcgtt tgcctctctg ggaagagaag ttcagggggtc ccagaaagg acagggaaat aaatgggtgc tgggatgaga ttc	
310	4321	Secretin Receptor	NP_002971.1	Secretin Receptor	MRPHLSPPLQ QLLLPVLIAC AAHSTGALPR LCDVLIQVLWE EQDCLQELS REQTGDLGTE P QPVPCEGMW DNISCPSSV PGRNVEVECP RFLRLMTSRN GSLFRNCTQD GWSETPRPN LACGVN VNS SNEKRHSYLL KLRMYTVGY SSSLVMLLVA LGILCAFRRL HCTRNYIHMH LFVSLRAL SNFKDAVLF SSDDVTYCDP HRACKLVMV LFQYCIANY SWLLVEGLYL HTLLAISFFS ERKYLGQFVA FGWSPAI FV ALWAIARHFL EDVGCWDINA NASIWIIRG PVILSILINF ILFINILRIL MRKLRTQETR GNEVSHYKRL ARSTLLLIPL FGIHYIVFAF SPEDAMEIQL FFELALGSFQ GLVVAVLYCF LNGEVQLEVO KKWQWHLRE FPLHPVASFS NSTKASHLEQ SQGTCTSI I	Homo sapiens

311	4480	Somatostatin NM_001049 Receptor Type 1	atgttcccca atggcaccgc ctctctctct ctctctctct tctctctctc ctgcccccaag cccggggcagc A tgcggcgaa ggcggcgag caggggcccc gggggcggcg ctgcccggcg catggaggag ccaggcgcaa atgcgtccca gaacgggacc ttgagcgagg gccaggggcag cgccatcctg atctctttca tctactcctg ggtgtgcctg gtggggcctg gtgggaactc tatggtcctc taagtgtacc tgcgtatgc caagatgaag acggccacca acatctacat cctaaatctg gccattgctg atgagctgct catgctcagc gtgcccctcc tagtcacctc cagttgttg cgccactggc ccttcggctg cgtgctctgc ggcctcgtgc tcagcgtgga cgcggtcaac atgttcacca gcatctactg tctgactgtg ctcagcgtgg accgtactgt ggcgtgtgtg catcccatca agggggcccc ctaccggcgg cccaccgtgg ccaaggtagt aaacctgggc gtgtgggtgc tatcgtgct cgtcatcctg cccatcgtgg tcttctctcg caccggcgcc aacagcgagc gcacgggtgc ttgcaacatg ctcatgccag agcccgctca acgtggctg gtgggcttcg tgtgtacac atttctcatg ggcctcctgc tggcgtggg ggcctatctgc ctgtgtctacg tgcctcatcg tgctaagatg cgcctatctg cctcaaggc cggctggcag cagcgcaagc gctcggagcg caagatcacc ttaattggtg tgatgtgtgt gatgtgtgtt gtcatctgct ggtgccttt ctacgtggcg cagctggtta acgtgtttgc ttagcaggac gacggcacgg tgagtcagct gtgggtcctc ctgggtctat ccaacagctg cgccaaaccc atcctctatg gctttctctc agacaacttc aagcgtctct tccaacgcat cctatgctc agctggatgg acaacggcgc ggaggagcgg gtgactatt acgccaccgc gctcaagagc cgtgcttaca gtgtggaaga cttccaaact gagaacctgg agtccggcgg cgtcttccgt aatggcacct gcaagtcctc gatacagacg ctctga ISFTYVCL VGLGNSMVI YVILRYAKMK TATNIYILNL AIADELIMLS VPFLVTSTLL P RHWEPGALLC RLVLSDAVN MFTSIYCLTV LSVDRYVAV HPKAAARYRR PTVAKVAVNLG VWVLSLLVIL PIVVFSRTAA NSDGTVACNM LMPEPAQRWL VGFVLYTFLM GFLLPVGAIC LCYVLIILAM RMVALKAGWQ QKRSEKRT LMVMVMVMVF VICWMPFYV QLVNVFAEQD DATVSQLSVI LGVANSKANP ILYGLSDNF KRSPQRILCL SWMDNAAEPP VDYATATLKS RAYSVEDFQP ENLESGGVFR NGTCTSRITT L	Homo sapiens
312	4480	Somatostatin NP_001040.1 Receptor Type 1	atggacatgg cggatgagcc actcaatgga agcaacacat ggctatccat tccatttgac A ctcaatggct ctgtgtgtgc aaccaacacc tcaaacccaga cagagccgta ctatgacctg acaagcaatg cagtcctcac attcatctat ttgtgtgtct geatcattgg ttgtgtgtggc aacacacttg tcaattatgt cactctccgc tctctcatgc tgggtctgcc ttctttggct tacatcctca acctggccat cgcagatgag ctctcatgc tgggtctgcc ttctttggct atgaagggtgg ccttggttcca ctggcccttt ggaaggcca ttgtccgggt ggtcatgact gtggtatggca tcaatcagtt caccagcatc tctgcctga cagtcagag catcgaccga tacctggctg tgggtccacc catcaagtcg gcaagtggga ggagaccccg gacggccaaag atgatcacca tgggtgtgtg gggagtctct ctgtgtgtga cctgtcccat catgatata gctgggctcc ggagcaacca gtgggggaga agagctgca ccatcaactg gccagggtgaa tctggggctt ggtacacagg gtccatcatc tacactttca ttctgggggt cctgggtaccc ctcaccatca tctgtctttg ctacctgttc attatcatca agtgaagtc cctgtgaatc cgagtgggct cctctaagag gaagaagtc gagagaagg tcaaccgaat ggtgtccatc gtgtgggctg tcttcatctt ctgctgggctt ccttctaca tattcaacgt ttcttccgct	Homo sapiens
313	4481	Somatostatin NM_001050 Receptor Type 2		Homo sapiens

314 4481 Somatostatin NP_001041.1
Receptor
Type 2 Homo sapiens

tccatggcca tcagcccccac cccagccctt aaaggcatgt ttgactttgt ggtggtcttc
acctatgcta acagctgtgc caaccctatc ctatatgcct tcttgtctga caacttcaag
aagagcttcc agaattgtcct ctgcttggtc aaggtgagcg gcacagatga tggggagcgg
agtgcacagta agcaggacaa atcccggctg aatgagacca cggagacca gaggaccctc
ctcaatggag acctccaaac cagtatctga
MDMADEPLNG SHTWLSIPFD LINGSVSTNT SNQTEPYDYL TSNAVLTFIY FWVCIIGLCG P
NTLVIYVILR YAKMKTITNI YILNLAIAD EFLMGLPFLA MQVALVHWPF GKAI CRVVM T
VDGINQFTSI FCLTVMSIDR YLAVVHPKIS AKWRRPRTAK MITMAVGVGS LLVILPIMIY
AGLRNQWGR SSCTINWPGE SGAWYTGFI YFIIIGFLVP LTIICLCYLF IIKVKSSGI
RVGSSKRKKS EKKVTRMVS I VVAVFIFCWL PFYIFNVSSV SMAISPTPAL KGMFDFVVVL
TYANSCANPI LYAF LSDNFK KSFQNVLCIV KVSQTDGGER SDSKQDKSRL NETTETQRTL
LNGDLQTSI

315 4482 Somatostatin NM_001051
Receptor
Type 3 Homo sapiens

atggacatgc ttcatccatc atcgggtgtcc acgacctcag aacctgagaa tgcctcctcg A
gctggccccc cagatgccac cctgggcaac gtgtcggcgg gcccaagccc ggcagggtcg
gcgtgcagt gcgttctgat cccctgtgtc tactgtgttg tgtcgtgtgt ggcctgtgtg
ggtaacctgc tgggtcatcta tgggttcttg cggcacacgg ccagcccttc agtcaccaac
gtctacatcc tcaacctggc gctggccgac gactcttca tgcgtgggct gcccttctcg
gccgcccaga acgcccctgt ctaactggccc ttgggtccc ctaactgtccg cctggtcatg
gcggtggatg gcatacaaca gttcacacgc atattctgc tgactgtcat gagcgtggac
cgctacctgg ccgtggtaca tcccaccgc tcggcccctt ggcgcacagc tccggtggcc
cgcacggta gcgcggctgt gtgggtggcc tcagccgttg tgggtgtgccc cgtggtgtg
ttctcgggag tggcccgcg catgagcacc tgccacatgc agtggcccga gccggcggcg
gcctggcgag ccggcttcat catctacacg gccgcactgg gcttcttcgg gccgtgtgtg
gtcatctgcc tctgctacct gctcatctgt gtgaaggtgc gctcagctgg gcgccgggtg
tgggcaccct cgtgccagcg gcgccggcg tcggaacgca ggttcacgcg catggtggtg
gcggtggtgg cgtcttctgt gctctgtgtg atgcccttct acgtgctcaa catcgtcaac
gtggtgtgcc cactgcccga ggagcctgcc ttcttgggc tctacttctt ggtggtggcg
ctgccctatg ccacacagctg tgccaaacccc atcctttatg gcttctcttc ctaccgcttc
aagcagggtt tccgtagggt cctgctgcgg cctcccgcg gtgtgcgcag ccaggagccc
actgtggggc ccccgagaa gactgaggag gaggatgagg aggagaggga tggggaggag
agcagggagg ggggcaagg gaggagatg aacggccggg tcagccagat cagcagcct
ggcacacagc ggcaggagcg gccgcccagc agagtggcca gcaaggagca gcagctccta
ccccaaagag cttccactgg ggagaaagtc agcacagtc gcatcagcta cctgtag
MDMLHPSSVS TTSEPENASS AWPEDATIGN VSAGPSPAGL AVSGVLIPLV YLVVCVWGLL P
GNSLVTYVVL RHTPASPVTN VYILNLALAD EFLMGLPFL AAQNALSYP FGLMCRLLM
AVDGINQFTS IFCLTVMSVD RYLAVVHPTR SARWRTAPVA RTVSAAVWA SAVVLPVVV
FSGVPRGMST CHNQWPEPAA AWRAGFIYT AALGFFGPLL VICLCYLLIV VKVRSAGRRV
WAPSCQRRR SERRVTRMV AVVALFVLCW MPFYVLNIVN VVCPLEPEPA FFLYFLVVA
LPYANSCANP ILYGFLSYRE KQGFRRVLLR PRRVRSQEP TVGPPKTEE EDEEEDGEE
SREGKGKEM NGRVSIQITQP GTSQQRPPS RVASKEQQLL PQEASTGEKS STMTRISYL

316 4482 Somatostatin NP_001042.1
Receptor
Type 3 Homo sapiens

317	4483	Somatostatin NM_001052 Receptor Type 4	atgagcgccc cctcgacgct gccccccggg ggcgaggaag ggctggggac ggctgggccc A tctgcagcca atgccagtag cgtcccgcg gaggcgagg aggcgtggc gggcgccggg gacgcgagg ggcggggcat ggtcgctatc cagtgcatt acgcgtgggt gtgcctgggtg gggctgggtg gcaacgacct ggtcatcttc gtgacccctc gtaagccaa gatgaagacg gctaccacca tctacctgct caacctggcc gtagccgacg agctcttcac gctgagcgtg cccttcgtgg cctcgtcggc cgcctcgcc cactggccct tcggctccgt gctgtgccc gcggtgctca gcgtcgacgg cctcaacatg ttcaccaggt tcttctgtct caccgtgtc agcgtggacc gctacgtggc cgtggtgcac cctctgcgc cggcgacctc cggcgggccc agcgtggcca agctcatcaa cctgggcgtg tggctggcat cctgttgggt cactctccc atcgccatct tcgcagacac cagaccggct cgcggcgcc aggcgtggc ctgcaacctg cagtggccac acccgccctg gtcggcagtc ttcgtggctt acacttctct gctgggctc ctgctgccc gctggtgcat tggcctgtgc taccgtcca tcgtgggcaa gatgcgcgc gtggccctgc gcgtggctg gcagcagcg agcgctcgc agaagaaaat caccaggtg gtgctgatgg tcgtggtcgt ctttgtgctc tgctggatgc ctttctacgt ggtgcagctg ctgaacctcg tcgtgaccag ccttgatgcc accgtcaacc acgtgtccct taccctcagc tatgccaaca gctgcgcca cctattctc tatggtctc tctccgacaa ctccgcccga tccttcagc ggttctctg cctgcgtgc tgcctcctg aggtgctgg aggtgctgag gaggagcccc tggactacta tgcactgct ctcaagagca aagtggggc aggtgcatg tgccccccac taaaatgcca gcaggagcc ctgcaaccag aaccggccg caagcgcatc ccctcacca ggaccaccac cttctga MSAPSTLPPG GEEGLGTAMP SAANASSAPA EAEAVAGPG DARAAGMVAI QCIYALVCLV P GLVGNALVIF VILRYAKMT ATTIIYLLNL VADELFMLSV PFVASSAALR HWPFSGVLICR AVLSVDGLNM FTSVFLTVL SVDRYVAVVH PLRAATYRRP SVAKLINLGV WLASLLVTLTP IAIFADTRPA RGGQAVACNL QWPHPAWSAV FVYTFLLGF LLPVLAIGLC YLLIVGKMRA VALRAGWQQR RRSEKKITRL VLMVVVTVL CWMFFYVQL LNLVVTSLDA TVNHVSLILS YANSCANPIL YGFLSDNFRR SFQRLCLRC CLLEGAGGAE EEPLDYATA LKSKGGAGCM CPPLKCQQA LQPEGRKRI PLTRTTT	Homo sapiens
318	4483	Somatostatin NP_001043.1 Receptor Type 4	atggagcccc tgttcccagc ctcacgccc agctggaacg cctcctccc gggggctgccc A tctggaggcg gtgacaacag gacgtgggtg gggccggcgc cctcggcagg gggcgggcg gtgctgggtg ccgtgctgta cctgctggtg tgtgcggcgc ggctggcgg gaacacgctg gtcatctacg tgggtgctgc cctgcgcaag atgaagaccg tcaccaacat ctacattctc aacctggcag tggccgacct cctgtacatg ctggggctgc ctttcttggc cagcgagaaac gcgcgtcct tctggccctt cggccccgtc ctgtgcccgc tggctatgac gctggagcgc gtcaaacagt tcaccagtgt cttctgctg acagtcatga gcgtggaccg ctacctggca gtggtgcacc cgtgagctc ggcgcgtg ggcgcgcgc gtgtggccaa gctggcgagc gcgcggcct ggtcctgtc tctgtgcatg tcgctgccc tectggtgtt cgcggacgtg caggagggcg gtacctgcaa cgcagctgg ccggagcccc tggggctgtg gggcgccgtc ttcatcatct acacggccgt gctgggcttc ttgcgcgcg tgcgtgtcat ctgctgtgc tacctgtca tcgtggtgaa ggtgagggcg gctgggctg cgtgggctg cgtgcggcgg cgctcgagc ggaagtgac ggcattggtg ttggtggtg tgctggtgt tgcgggatgt tggctgccct tcttaccgt caacatcgtc aacctggccg tggcgctgccc ccaggagccc	Homo sapiens
319	4484	Somatostatin NM_001053 Receptor Type 5		Homo sapiens

320	4484	Somatostatin NP_001044.1 Receptor Type 5	MEPLFPASTP SWNASPGAA SGGDNRTLV GPAPSAGARA VLVPVLYLLV CAAGLGENTL P VIYVWLFRAK MKTWTNIYIL NLAIVADVLVM IGLPFLATQN AASFVFPFV LCRVMTLDG VNQFTSVFCL TVMSVDRYLA VVHPLSSARW RRPVAKLAS AAANVLSLCM SLPLLVFADV QEGGTCNASW PEPVGLWGA VFIYTAVLGF FAPLLVICLC YLLIVVKVRA AGVRVGCVR RSEKVTIRMV LVVVLVFAQC WLPFFFTVNI V NLAVALPQEP ASAGLYFFV ILSYANSCAN PVIYGLFLSDN FRQSFQKVL C LRKSGAKDA DATEPRPDRI RQQEATPPA HRAAANGLMQ TSKL	Homo sapiens
321	4552	Tachykinin Receptor 1	aattcagagc caccgcgggc agggcgggcag tgcattccaga agcgtttata ttctgagcgc A cagttcagct ttcaaaaaa gfgctgccc taaaaagcct tccaccctcc tgtctgcttt agaagggacc tgagcccccag ggcgcagcca caggactctg ctgcagaggg gggttgtgta cagatagtag gctttacgcc tagcttcgaa atggataaacg tccctccggg ggactcagac ctctcccaa acatctccac taacacctcg gaacccaatc agttcgtgca accagcctgg caaattgtcc tttgggcagc tgcctacacg gtcattgtgg tgacctctgt ggtgggcaac gtggtagtga tgtggatcat cttagccccc aaaaagatga ggacagtgc gaactatatt ctgggtgaac tggccttcgc ggagccctcc atggctgcat tcaatacagt ggtgaacttc acctatgctg tcacaacga atggtactac ggctgttct actgcaagt ccacaacttc tttcccatcg ccgctgtctt cgcagatc tactccatga cggctgtggc ctttgatagg tactggcca tcatacatcc cctccagccc cggctgtcag ccacagccc caaagtggtc atctgtgtca tctgggtcct ggctctcctg ctggccttc cccagggcta ctactcaacc acagagacca tgcagcagc agtcgtgtgc atgatcgaat ggccagagca tccgaacaa atttatgaga aagtgtacca catctgtgtg actgtgctga tctacttct cccctgctg gtgattggct atgcatacac cgtagtggga atcacactat gggccagtga gatccccggg gactcctctg accgctacca cgaagcaagc tctgccaa ccaagggtgt caaatgatg attgtcgtgg tbtgcactt cgcctatctg tggctgccc tccacatctt cttcctcctg ccctacatca accagatct ctacctgaag aagtttatcc agcaggctca cctggccatc atgtggctgg ccctgagctc caccatgtac aaccccatca tctactgctg cctcaatgac aggttccgtc tgggcttcaa gcctgccttc cgtgctgccc cctcatcag cgcggcgac tatgaggggc tggaaatgaa atccaccgg tatctccaga cccaggggcag tgtgtacaaa gtcagccgcc tggagaccac catctccaca gtgggtgggg cccacgagga ggagccagag gacggcccca agggcacacc ctgctccctg gactgacct ccaactgctc ttcacgaagt gactccaaaga ccatgacaga gagttcagc tctcctcca atgtgctctc ctaggccaca gggcttttgg caggtgcagc cccactgccc ttgacctgc ctccttcat gcatggaaat tcccttcac tggaaaccatc agaacacccc tccactggg acttgcaaaa aggttcagta tgggttaggg aaacattcc atccttgagt caaaaaatc caattcttc ctatctttgc caccctcatg ctgtgtgact caaaccaat cactgaactt tgcctgagcct gtaaaaataa aggtcgagcc agcttttct caagagccca atgcattcca tttctgggaag tgactttggc	Homo sapiens

322	4552	Tachykinin Receptor 1	NP_001049.1	tgcatgcgag tgctcatttc aggatg	MDNVLPVDS LSPNISTNTS EPNQFQPAW QIVLWAAAYT VIVTSSVGN VVMWIIIAH P KRMRTVTNYF LVNLAFAEAS MAEFNTVNF TYAVHNEWY GLFYCKFHFNF FPIAAVFASI YSMTAVAFDR YMAIIHPLQP RLSATATKWV ICVWVLLALL LAFPOGYIST TETMPSRVVC MIEWPEHPNK IYKVVYHICV TVLIYFLPLL VIGYATVVG IFLWASEIYG DSSDRYHEQV SAKRKVVKMM IVVCTFAIC WLPFHIFELL PYINPDLYLK KFIQQVYLAI MWLAMSSTMY NPILYCLND RFRLGFKHAF RCCFFISAGD YEGLEMKSTR YLQTQGSVYK VSRLETTIST VVGAEHEEPE DGPKATPSSL DLTSNCSSRS DSKTMTESFS FSSNVLS	Homo sapiens
323	4687	Thrombin Receptor	NM_001992	ggcgggggc gcacagagc agaggggctt gcgagcggc gctgagggac cgcggggagg A ggcgccgag cggctccagc gcagagactc tcactgcacg ccgagggccc ctctctcgct ccgcgcgcg gaccgcgcg ccaggtccc cccgcgcgc ctaaccgcgc cagacacagc gctcgcgag ggtcgttg accctgatc taccgtggg caccctgcg cctgctgccc gcgaagacc gctccccgac ccgagaagt caggagagag ggtgaagcgg agcagccga ggcggggcag cctccccgag cagcgcgcg cagagcccg gacaatgggg ccgcggcggc tgctgctggt ggccgcctgc ttcagctgt ggcgcgcct gttgtctgc cgcaccggg ccgcgaggc agaatacaaa gcaacaaatg ccacctaga tccccgtca tttcttctca ggaaacccaa tgataaatat gaacctttt gggaggatga ggagaaaaat gaaagtgggt taactgaata cagattagtc tccatcaata aaagcagtc ctttcaaaaa caacttctc cattcatctc agaagatgcc tccggatatt tgaccagctc ctggctgaca ctctttgtcc catctgtga caccggagt tttgtagtca gcctcccact aaacatcatg gccatcgttg tgttcatctt gaaaatgaag gtcaagaagc cggcggtggt gtacatgctg caccctggcca cggcagatgt gctgtttgtg tctgtgctc cctttaaagt cagctattac ttttccggca gtgattggca gttgggtct gaattgtgtc gcttcgtcac tgcagcattt tactgtaaca tgtacgcctc tatctgtctc atgacagtca taagcattga ccggtttctg gctgtggtgt atcccatgca gtccctctcc tggcgtactc tgggaagggc ttccttcaat tgtctggcca tctgggcttt ggccatcgca ggggtagtgc ctctcgtct caaggagcaa accatccagg tgcccggtct caacatcact acctgtcatg atgtgtcaa tgaacacctg ctggaaggct actatgccta ctacttctca gccttctctg ctgtcttct ttttgtgcg ctgatcatt ccacggtctg ttatgtgtct atcattcgat gcttagctc ttcgcagtt gccaacgca gcaagaagtc ccgggctttg ttctgtcag ctgtgtttt ctgcattctt atcatttgc tcggacccac aaacgtctc ctgattgccc attactcatt cctttctcac acttccacca cagaggctgc ctactttgcc tactctctt gtgtctgtgt cagcagcata agctcgtgca tcgacccctt aattactat tactctctt ctgagtcca gaggtacgtc tacagtatct tatgtgcaa agaaagttcc gatcccgca gttataacag cagtggcgag ttgatggcaa gtaaaaatgga tactgtctct agtaacctga ataacagcat atacaaaaag ctgttaactt aggaaaaagg actgctggga ggttaaaaaa aaaagttaa aaactgaat aacctgagga ttctattagt cccacccaa actttattga ttacctctt aaaaacacag atgtacgact tgcatacctg ctttttatgg gagctgtcaa gcatgtattt ttgtcaatta ccagaaagat aacaggacga gatgacggtg ttattccaag ggaattatgc caatgtaca gtaataaatg aatgtcactt ctggatatag ctaggtgaca tatacatact tacatgtgtg tataatgtaga	Homo sapiens	

324	4687	Thrombin Receptor	NP_001983.1	<p>tgtatgcaca cacatatatt attgacagt cagtagagaa taggcacttt aaacacactt tccccgcac ccagcaatt atgaaaataa tctctgattc cctgatttaa tatgcaaaagt ctaggttggt agagtttagc cctgaacatt tcatggtgtt catcaacagt gagagactcc atagtttggg cttgtaccac ttttgcaaat aagtgtattt tgaattgttt tgacggcaag gtttaagta ttaagagga agacttagta ctatctgttg gtgaagttc tagtgttttc aattttaaac atatccaagt ttgaattcct aaattatttg aacagatga aaagcctctg tttgatatg gtagtatatt ttacatttt acacactgta cacataagcc aaactgagc ataagtcctc tagtgaatgt aggtggctt tcagagtagg ctattcctga gagctgcatg tgctcgcccc cgatggagga ctccaggcag cagacacatg ccagggccat gtcagacaca gattggccag aaaccttctt gctgagcctc acagcagtga gactggggcc actacatttg ctccatctc ctgggatttg ctgtgaactg atcatgttta tgagaaactg gcaagcaga atgtgatc ctaggagga atgaccatga aagacttctc taccatctt aaaaacaag aaagaaggca tggacttctg gatgcccatc cactgggtgt aaacacatct agtagttgt ctgaaatgc agttctgata tgggaagcacc cattatgctg tgtggccact ccaatagggtg ctgagtgtag agagtgaat aagacagaga cctgccctca agagcaaat agatcatgca tagagtgtga tgtatgtga ataaatatgt ttacacacaa caaggcctgt cagctaaaga agtttgaaca ttgggttac tatttctgt taattctggt ggttataact taatgaaac aatgcagtac aggacatata ttttttaaaa taagtctgat ttaattgggc actatttatt tacaatgtt ttgtcaata gattgtctca atcaggtttt cttttaagaa tcaatcattg cagtctgctt agaaataaca gaagaaaaa gaattgacat tgaattctag gaaaattatt ctataatttc cattactta agacttaatt agactttaa agcatttttt aacctcctaa gtatcaagta tagaaaaatc tcatggaatt cacaagtaa ttgggaatt aggttgaac atatctcta tcttacgaaa aatgtgtagc attttaaaa aatatagaaag ttgcaaggca aatgtttatt taaaagagca gcccaggcgc ggtggtcac gcctgtaac ccagcacttt gggaggctga ggcgggtgga tcacgaggtc aggagatcga gacctcctg gctaaacacg tgaacccgt ctctactaaa atgcaaaaa aaattagccg ggcgtggtgg caggcacctg tagtccacg tactcgggag gctgaggcag gagactggcg tgaacccagg agcgggacct ttagtgagc cgagatcgcg ccactgtgct ccagcctggg caacagagca agactccatc tc MGPRRLLLVA ACFSLCGPLL SARTARRPE SKATNATLDP RSFLLRNPND KYEPFWEDEE P KNESGLTEYR LVSINKSSPL QKQLPAFISE DASGYLTSSW LTLFVPSVYT GVFFVSLPLN IMAIWVFIK MKVKKPAVY MLHLATADVL FVSVLPFKIS YYFSGSDWQF GSELCRFVTA AFYCNMYASI LMTVISIDR FLAVVPMQS LSWRTLGRAS FTCLAIWALA IAGVPLVLK EQTIQVPLN ITTCHDVINE TLEGGYAYY FSASFVFFF VPLIISTVCY VSIIRCLSSS AVANRSKSR ALFLSAVFC IFICFGPTN VLLIAHYSEL SHTSTTEAY FAYLLCVCVS SISSCIDPLI YYVASSECQR YVYSILCKE SSDPSSYNS GQLMASKMDT CSSNLNNSIY KKLLT</p>	Homo sapiens
325	4734	Thyrotropin Releasing Hormone Receptor	NM_003301	<p>tagcttcaag ccactgaaga tggaaaacga gacagtcagt gaactgaacc aaacacagct A tcagccacga gcagtggtgg ccttagaata ccaggtggtc accatcttac ttgtactcat tatttgggc ctgggcatg taggcaacat catggtagtc ctggttgta tgagaaccaa gcacatgag accccacaa actgtacct ggtgagcctg gcagtagctg atctcatggt cttgggtggc gcaggcctcc ccaacataac agacagatc tagggttctt ggggtctatgg</p>	Homo sapiens

244/448

326	4734	Thyrotropin Releasing Hormone Receptor	NP_003292.1	<p>ctatgttgga tgcctctgca ttacttaact ccagtatattg ggaattaatg caticctcttg</p> <p>ttcaataaca gcctttacca ttgagagga catagcaatc tgtcacccca tcaaaagccca</p> <p>gtttctctgc acattttcca gagccaaaaa gattatcatc ttigtctggg ctttcacatc</p> <p>tctttactgt atgctctggg tcttcttgct ggatctcaat attagcacct aaaaagatgc</p> <p>tattgtgata tccgtgtggc acaagatctc caggaattac tactcaccta ttacaccta</p> <p>ggacttttgt gtctttttatg ttgtgccaat gatcctggct accgtcctct atggattcat</p> <p>agctagaatc cttttcttaa atccattcc ttcatagctc aaagaaaact ctaagacatg</p> <p>gaaaaatgat tcaaccctc agaacacaaa tctgaatga aatacctcta atagatgttt</p> <p>caacagcaca gtatcttcaa ggaagcaggt caccaagatg ctggcagtggt ttgtaattct</p> <p>gtttgcccct ttatggatgc cctacaggac tctagtgggt gtcaactcat ttctctccag</p> <p>tcccttccaa gaaaatttgt ttttgctctt ttgcagaatt tgcatttato tcaacagtg</p> <p>catcaaccgc gtgatttaca atctcatgtc ccagaaatc cgtgcagcct tcagaaaagct</p> <p>ctgcaactgc aagcagaagc caacagagaa accgtgtaac tacagtggtg ccttaaatga</p> <p>cagctcatc aaggagtcag accatttcag cacagagctt gatgatata ctgtcactga</p> <p>cacttacctg tctgccacaa aagtgtcttt tgatgacacc tgcctggctt ctgaggtatc</p> <p>cttagccaa agtgatttca tgaattagaa gaaaatggat gacaaaagaa ttgagaatct</p> <p>gtgcagtcac caacaaaaag gagaacatgg ccaatagatc tatgtgaaga cagagcagat</p> <p>cagctcttgt caatgctcta acaaacccg</p>	Homo sapiens
327	4944	Angiotensin II Type 1 Receptor	NM_000685	<p>atccggagct gectctctgc caatgattcc agcgcctgac agccaggacc ccaggcagca A</p> <p>gcagtgaca ggagctctgg accggcgcgc cgctagcagc tctgccgggc cgcgccggg</p> <p>atcgatggg agcgcttga gccgaccag cgagtgaagg cgcacagccg ggacgccgag</p> <p>gcggcgccg ggagaccgc accagcagc cgggccctcg ggggacgtg acgcagcgc</p> <p>cgggcgccg gtttgatatt tgacaaaatg atctaaaatg gctgggtttt tatctgaata</p> <p>actcactgat gccatcccg aaagtcggca ccaggtgtat ttgatatagt gtttgaaca</p> <p>aattcgacc agtgatcaa aatgattctc aactcttcta ctgaagatgg tattaaga</p> <p>atccaagatg attgtcccaa agctggaagg cataattaca tatttgtcat gattcctact</p> <p>ttatacagta tcatctttgt ggtgggaata ttgggaaca ccttggtggt gatagtcatt</p> <p>tactttata tgaagctgaa gactgtggcc agtgttttc ttttgaattt agcactggct</p> <p>gacttatgct ttttactgac ttggccacta tgggctgtct acacagctat ggaataccgc</p> <p>tgcccctttg gcaattacct atgtaagatt gcttcagcca gcgtcagttt caacctgtac</p> <p>gctagtgtgt ttctactcac gtgtctcagc attgatcgat acctggctat tgttcaccca</p> <p>atgaagtccc gccctcgacg cacaatgctt gtgaccaaag tcactgtcat catcatttgg</p> <p>ctgctggcag gcttggccag ttggccagct ataatccatc gaaatgtatt ttcatgtgag</p> <p>aacaccaata ttacagtttg tgccttccat tatgagtgccc aaattcaac ccttccgata</p>	Homo sapiens

328	4944	Angiotensin II Type 1 Receptor	NP_000676.1	<p>gggctgggc tgacaaaaa tatactgggt ttctgtttc cttttctgat cattcttaca</p> <p>agttatact ttatttgga ggcctaaag aagccttatg aaattcagaa gaacaaacca</p> <p>agaaatgatg atatttttaa gataattatg gcaattgtgc ttttcttttt cttttccctgg</p> <p>attccccacc aaatattcac ttttctggat gtattgattc aactaggcat catacgtgac</p> <p>tgtagaattg cagatattgt ggacacggcc atgccttaga ccatttggat agcttatttt</p> <p>aaccaattgcc tgaatcctct tttttatggc tttctggga aaaaatttaa agatatattt</p> <p>ctccagcttc taaaatatat tccccaaaa gccaaatccc actcaaacct ttcaacaaaa</p> <p>atgagcacgc ttctctacgc cccctcagat aatgtaagct catccacca gaagcctgca</p> <p>ccatgttttg aggttgatg acatgttcga aacctgtcca taaagtaatt ttgtgaaaga</p> <p>aggagcaaga gaacattcct ctgcagcact tcaactacca atgagcatta gctacttttc</p> <p>agaattgaag gaaaaatgc attatgtgga ctgaaccgac ttttctaaag ctctgaacaa</p> <p>aagcttttct ttcttttgc acaagacaa agcaaaagcca cattttgcat tagacagatg</p> <p>acggctgctc gaagacaat gtcagaaact cgatgaatgt gttgatttga gaaattttac</p> <p>tgacagaaat gcaatctccc tagcctgctt ttgtcctgtt attttttatt tccacataaa</p> <p>ggtatttaga atatatataa tcgttagagg agcaacagg gatgagagtt ccagatttgt</p> <p>ctgtccagtt tccaaagggc agtaaaagtt tcgtgccggt ttccagctat tagcaactgt</p> <p>gctacacttg cacttggtac tgcacatttt gtacaaagat atgctaagca gtagtcgtca</p> <p>agttgcagat ctttttgtga aattcaacct gtgtcttata ggtttacact gccaaacaa</p> <p>tgcccgtaag atggcttatt tgtataatgg tgttactaaa gtcacatata aaagtttaaac</p> <p>tacttgtaaa ggtgctgac tgggtcccaag tagtagtgc ctcctagtat attagtttga</p> <p>tttaatatct gagaaagtga tatagtttgt ggtaaaaaga ttatatatca taaagtatgc</p> <p>cttctgtttt aaaaaagta tatattctac acatatatat atatgtatat ctatatctct</p> <p>aaactgctgt taattgatta aaactctggca aggttatatt tactttaaaa taaaaataatt</p> <p>ttattgc</p>	Homo sapiens
329	4946	Angiotensin II Type 2 Receptor	NM_000686	<p>TVASVFLNL ALADLCFLLT LPLWAVYTAM EYRWPFGNYL CKLASASVSF NLYASVFLLT</p> <p>CLSIDRYLAI VHPKSRLLR TMLVAKVTCI IITWLLAGLAS LPAIIHRNVF FIENITNITVC</p> <p>AFHYESQNST LPIGLGLTKN ILGLFPFLI ILTSYTLIWK ALKKAYEIQK NKPRNDDIFK</p> <p>IIMAIVLFFF FSWIPHQIFT FLDVLIQLGI IRDCRIADIV DTAMPITICI AYFNCLNPL</p> <p>FYGFGLGKKFK RYFLQLLKYI PPKAKSHSNL STKMSTLSYR PSDNVSSSTK KPAPCFEVE</p> <p>acgtccaccg gtcctgagaga acgagtaagc aagaattcaa agcattctgc agcctgaatt A</p> <p>ttgaaggagt gtgttaggc actaagcaag ctgatttatg ataaactgctt taaacttcaa</p> <p>caacaaaag cataagaact agagctgct gacatttcaa tatgaagggc aactccacc</p> <p>ttgccactac tagcaaaaac attaccagcg gctctcactt cgggcttctg aacatctctg</p> <p>gcaacaatga gtcacacttg aactgttcac agaaaccact agataagcat tttagatgcaa</p> <p>ttctattctt ttactacatt atatttgtaa ttggatttct ggtcaaatatt gtctgtggtta</p> <p>cactgttttg ttgtcaaaaag ggtcctaaaa aggtttcttag catatacatc ttcaacctcg</p> <p>ctgtggctga ttactcctt ttggctactc ttctctatg ggcaacctat tattcttata</p> <p>gatatgactg gctctttgga cctgtgatgt gcaagtttt ttgttctttt ctaccctga</p> <p>acatgtttgc aagcattttt ttatcacctt gcattgagtg tgataggtac caatctgtca</p> <p>tctaccctt tctgtctcaa agaagaatc cctgggcaagc atcttatata gttcccccttg</p>	Homo sapiens

330	4946	Angiotensin II Type 2 Receptor	NP_000677.1	<p>tttgggtgat ggccgtgttg tcttcattgc caacatttta ttttcgagac gtcagaacca</p> <p>ttgaatactt aggagtgaat gcttgcatat tggcttccc acctgagaaa tatgcccatt</p> <p>ggtcagctgg gattgacctt atgaaaaata tcccttggtt tattatccct ttaatatcca</p> <p>tagcaacatg ctatttttga attagaaaac acttactgaa gacgaatagc tatgggaaga</p> <p>acaggataac ccgtgaccaa gtcctgaaga tggcagctgc tgttgtctg gccttcata</p> <p>tttgggtgct tcccttccat gttctgacct gctggcctg tctggcctgg atgggtgtca</p> <p>ttaatagctg cgaagtata gcagtcattg acctggcact tcccttttggc atccctcttg</p> <p>gattcaccaa cagctgcgtt aatccgtttc tgtattgttt tgttggaac cggttccaac</p> <p>agaagctccg cagtgtgttt agggttccaa ttacttggct ccaagggaag agagagagta</p> <p>tgtcttggcc gaaaagcagt tctcttagag aaatggagac ctttgtgtct taaacggaga</p> <p>gcaaaatgca tgaatacaac atggctactt gctttgagc tcaccagaat tatttttaag</p> <p>tggttttaat aaaaataaa aatttccctt aatcttctt gaatctctg aaaccaaag</p> <p>taactatgtt tatcgtccag tgactttcag gaatgcccc tgttttctga tatgtttgta</p> <p>caagatttca ttggtgagac atattttaca cctagaagta actggtgata tatctcaaat</p> <p>tgtaatat aatagattgt gaataatgat ttggggattc agatttctct ttgaacatg</p> <p>cttgtgttct ttagtgggtt ttatatcca tttttatcag gatttccctc tgaaccagaa</p> <p>ccagctcttc aactcattgc atcattttaca agacaacatt gtaagagaga tgagcacttc</p> <p>taagttgagt atattataat agatttagtac tggatttatt aggccttagg catatgcttc</p> <p>tttaaaaaacg ctataaatta taticctctt gcatctgact tgagtgagg tttatagtta</p> <p>agcttatttt tacagttata gaaagcaaga tgtactataa catagaattg caatctataa</p> <p>tatttgtgtg ttcactaaac tctgaataag cactttttaa aaaactttct actcatatta</p> <p>atgattgttt aaaggtttct atttctctg atacttttt gaaatcagta aacactgtgt</p> <p>attgttgtaa aatgtaagg tcacttttca catccttgac tttttagatg tgctgctttg</p> <p>atatatagga cattgatttg atttttatta ttaatgcttt ggttctgggt tgttccctaa</p> <p>aatatctggg tggcttaaaa aaaactcttt aacttgtaat aaacctttaa ctggcatagg</p> <p>aatggtatc cagaatggaa ttttgctaca tggggctctg gtggggggcaa agagacccag</p> <p>tcaattacat gtttggtagc aagaaaggaa cctgtcaggg cagtacaatg tgactttgaa</p> <p>aatatatacc gtgggggtag tttacccta tatctataa cactgtttgt tccagaatct</p> <p>gtatgattct atggagctat tttaaaccaa ttgcaggtct aga</p> <p>MKGNSTLATP SKNITSLHF GLVNISGNNE STLNCQKPS DKHLDAIPIL YYIFVIGFL P Homo sapiens</p> <p>VNIWVTLFC CQKPKKVSS IYIFNLAVAD LLLLATPLW ATYYSRYDW LFGPVMCKVF</p> <p>GSFLTLMFA SIFITCMVS DRYQSVIYPF LSQRNPMQA SYIVPLVMCM ACLSSLPTFY</p> <p>FRVRTIEYL GVNACIMAF PEKYAOWSAG IALMKNILGF IIFLIFIATC YGIRKHLK</p> <p>TNSYGNRIT RDQVLKMAA VLAFIWLCL PFHVLTFDLA LAWMGVINSC EVIAVIDLAL</p> <p>PEAILLGFN SCVNFPLYCF VGNRFQKLR SVFRVPIWL QKRESMSR KSSSLREMET</p> <p>FVS</p>	
331	5072	Pyrimidinergic Receptor P2Y4	NM_002565	<p>atggccagta cagagctctc cctgttgaga tccctaggcc tcagcccagg tcttggcagc A</p> <p>agtggagtg agctggactg ttggtttgat gaggatttca agttcatcct gctgctgtg</p> <p>agctatgcag ttgtttttgt gctgggcttg ggccttaacg cccaacctt atggctcttc</p> <p>atcttccgcc tccgacctg ggaatgcaacg gccacctaca tgttccacct ggcattgtca</p>	Homo sapiens

332	5072	Pyrimidinergic Receptor P2Y4	NP_002556.1	MASTESSLLR IFRLRPWDAT CSVLFLTCIS TTVLCHDTR LRLSLRTIAV LDPVLYLLTG RADRL	SEVELDCWFD DTLYVLSLPT LRALRWGRPR SSAVMGLLFG FHITRTIYYL CGGGKQPRT AASSIALVSL	EDFKFILLPV LIYYAAAHNH WPFGEICKF LVVAGCLVFN LFFVTTSNKG GLMARRLYQP LPGSAQSSSR LNIVNVVYKV TRPLASANSR PEDSSCRWAA TPQDSSCSTP	Homo sapiens	
333	5117	Vasopressin V1A Receptor	NM_000706	taattgcttg catccctgaa aacacagctt ccgatgacc accagagatt tgacaacctt actgcaatga ctgaggcaat tgctctctga tgcttgaaaa gagctgaggg agagtaacgg ctttgagatt gacctggaca agatgtcccc ccgcatcccc aactccttaa tgtgaataca caaacatagg	tccagacagg cttctgcctc gagcatttcc gaaaggcagg aggaagcagg catgaacgga ttgcatattt ccacggccac agataactgc ttgtgtctcg tctgcctccc tctgcctccc aggtggttgt tactcctgag gatggccgct agtaaccaga atcaggcttt tccatagaga aaaccaggag ccactggggc atgagcgttac	tggtctggaa ctggatatct ccatatacga tcccttcatt actccagatt aagtggaat tcacagaggg cgttctgacc aatactgaaa agaaacggct tctttcttc tcttcaacaa cagaggggct tcccagggcc ggggcggttt tgctcttgt ggacctgc aaccccagga acactcccc tgagtgcgtt taggaagaga	tattaccttc gaaccaacac acttgatctt agacgcacag catctcaacg attactgaga tgatatattt aacaagtgca cttgtaaaat cgttaaaaa ccagctgttc tcttctctct tctgtccctt ccaccaaaa ggccaaattt atctagagaa caaacccgc cttccccgtc tagctcttta	Homo sapiens

agtcacgagg ggggagaaat gtttgcccg ggaataattg cctggggaat aaaatttgcc
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gtttctagt gcattttcat atgttacc aaactagac attattttgt atggaatatt
aatggaaaca tgcgtacta aaatatgcag gctgtattcc cagaaataca acagaagtta
tattttaaa ggaataatca taaccacct agctttatat ttgttgttta gtttctttta
ttttcatttc taacataagt aagacttgat tggtttaaaa gtcacataaa atgcggcact

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334	5117	Vasopressin V1A Receptor	NP_000697.1	PSGNSSPWMP TFAVAVLGN S VLLALHRTF DWLCRVVXHL QVFGMEASAY LSTPQYFVFS MIEVNNVTKA YNIWCNVRGK TASRQSKGAE IVCWAPFFII QMWSVWDPM S QSFPCQNMK EKENKEDTDS ctccagccgc tgctcaccag gcagagcgag gcgacaccca ctgctccgga ccgcgcctcc tcagaaaaag ttgagagaaa gagaatttga gccttctttc tctccacaga gctcactct tctcccatct tctgacccc tcttctccc ccttcggaat ctatcctcc ctctcctct atttgggaag ctctcctctg tcattctcaa actccatttt atccatcaaa cctctccact ccagcaaac ctgtctcatg gattctgggc gacccctctc tggccccaat gccacaacac aggtggagat cggagtcctg gccactgtcc tgctgctgac cctgggcccag ctgggcccga acttagccct gacagacctg gccgtggcgc acatcaccta ccgcttccag ggccccgacc tgctcagcat gttgcctcc acctacatgc ctgtctgtca cccctgcgc agctccagc ctgctccctg gctgctggcc gccatcttca gggaggtgat ccagggtca ggggtgctgg ggccacgggc ctacctacc tggaccacc tcacggcctg ctacagcctc atctgccatg aggcctggcg ggtgggagga gggggctgga tagctgccac cactcggggg ctgccatctc ccaagatccg aacagtgaag atgacctttg ctcccttctt cagtgtccag atgtggtccg	PPRDVRNEEL AKLEIAVLAV P AFFQVLQMC WDITYRFRGP QOPARRSLM IAAAWLSFV TGGIFVAPV ILGTCYGFIC SISRKIRTV KMTFVIVTAY SCCNPWYMF FSGHLLQDCV WKDSPKSSKS IKFIPVST tggggcttgc tgccctgagc A aagggtctcc gctcttggct aagcgcttc cctctcccca agggtgtag cccctcccca gagcgattgg aggtgctga gcatccagtc cccgtctga cgatccagtc cacttttct cctctgaagc atttccgct tctctccac ctccctgcc cctctccca atcttccct tgccaaaccc accctcggg ccgggatgag gactggcca gaccgggggc aacctggctg catgacactg tctgtgctgc gctgccacag ctgctgtggg ggccgtcaag tacctgcagg gacgtggac cgtacctgg gtccacctac ctgtctatcg agtcttcatt ttttccctgc agacttcggc ttcccttggg cgttctgcg gtgacctgc aaacctaaaa gtcaagacac caggccctca ccttccacct catcaacacc atctcaoggg ggcctacatc gcttgcctggg gaatgccct gatgaagatt
335	5118	Vasopressin V1B Receptor	NM_000707		

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sapiens

336 5118 Vasopressin NP_000698.1 V1B Receptor
ccaccaatgt ggctttcacc atctctatgc ttttgaggc cctcaacagc tgctgcaacc
cctggatcta catgggcttc aacagccacc tgttaccgcy gcccctgcgt caccctgacct
gctgtggggg tccccagccc aggatgcgcc ggcggctctc cgacggcagc ctctcgagcc
gccacaccac gctgctgacc cgctccagct gcccggccac cctcagcctc agcctcagcc
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MDSGPLWDAN PTPRGTLAP NATPWLGRD FELAKVEIGV LATVLVLATG GNLAVALLTG P
QLGRKSRMH LEVLHLALTD LAVALFQVLP QLLWDITYRF QGPDLLCRV KYLOVLSMFA
STYMLLMTL DRYLAVCHPL PSLQPGQST YLLIAAPWLL AAFSLPQVF IFSLREVIQ
SGVLDCAWF GPPWGPRAYL TWTTLAIFVL PVTMLTACYS LICHEICKNL KVKTOAWRVG
GGWRTWDRP SPSTLAATTR GLPSRVSSIN TISRKIRTU KMTFVIVLAY IACWAPFFSV
QMWVWDKNA PDEDSTNVAF TISMLLGNIN SCCNPWIYMG FNSHLLPRPL RHLACCGGPQ
PRMRRRLSDG SLSSRHTTL TRSSCPATLS LSLSLTSGR PRPEESPRDL ELADGEGTAE
TIIF

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337 5119 Vasopressin NM_000054 V2 Receptor
agaagatcct ggggtctgtg catccgtctg tctgaccatc cctctcaatc ttccctgccc A
aggactggcc atactgccac cgcacacgtg cacacacgcc aacaggcatc tgccatgctg
gcatctctat aagggtctca gtccagagac cctgggccc tgaactgtct cctcaggcag
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5519											
342											

343	5520	Brain-Specific Angiogenesis Inhibitor 2	NM_001703	GDGDFKLD SELSRAQEKALDTSYVILPTATATLRPKPK EEPKYSIHID QMPOTRLIHL STAPEASLPA RSPPSRQPPSGGPPEAPPAQ PPPPPPPPP PPQPLPPPP NLEPAPPSLG DPGEPAHPG PSTGPSTKNE NVATLSVSSL ERRKSYAEL DFEKIMHTRK RHQDMFQDLN RKLQHAEEKD KEVLGPDSPK EKQQTPNKRP WESLRKAHGT PTWVKLELP LQPSPLELRS VEWERSGATI PLVGQDIIDL QTEV	gcgcgcgagg agagcgggag cctcgccct ccgcgcggt gcagctacct accctgggcc A cgccagggt ccctgcttag gtagggcaaa cttggcccc gtggcccc ccgcccagcg cgcccccg cctgcttag gacggcgcc aggaatcca cagcagtgat acatgtgacg tcacactga cagtgcctc ctgtggcat ggtcaggt gtgcaggt cctggcacac tggtgtaac tccgcccc tctctccc tcagtaaac agattacgc ggtgacatgc ctcacagctg atcacgacac acgggatgg agagcaagag ttatggagaa tacaggttgg atgggcaagg gacataggat gacccagcc tgccccct tactgtctg gattctgtc ctgccttg ccaccgctt gaccccccc ccagtgctt gctctgccc ggcctgggt gtgctctacg gggccttct gctgaggac ccttttcta ccacgccc caaccgccc tggacctgg agaaccctga cccaccaaag tactccctt acctgccct caaccgccc gagcaggtgt ggcacactt tgcctccc ctgtgccc ttgaccacta cctggtcaac tttacctgcc tgggcttag ccccgaggag gcggtggcc agcgagatc agagtgggg cgccagaa agagaggagc agagcgga aggggttg agctgtgcag cggctcagc cctttacct tctgacct cgacaagaac ttctgagc tgtgctgtc ggtgagccc tcgaggccc cgcctctgt ggcggcgt gctcagct cctgttctt caggtgtctg ctcatcaaca acaacaactc tagccaatc acctgtgtg tgcctgccc ctggagtgag gagtggtgcc ggcgtgccc cagggcctc ggtttgtc agccaggtg cagctgccc ggagaggcg ggcgggctc caccaccac acatctccag gcccctctc tggccacac ctgtccaatg cctgtgtgc cgggggccc cccccactg ctgaggcca tttgacctg gggagcagca atgatctgt cacaaccgag atgagatag gtgagagcc ggaagaggaa ccgaaagtga aaaccagtg gccgaggtct gcagatgag ctgggtata catggcgag acaggcgacc cggcggtga gtagtggtc cgtgagagc tgtgttccc gacgtgtggg cagggtctgc agtgcgagc cgcctcctg gtgtcctcc cctatggac cctgtgcagc gggcccctgc gggagaccag ggcctgcaac aattcagcca cctgcccagt gcacggcgtg tgggaggagt ggggtcctg ggcctgtgc tcccgagct gggggcggg gtcccggagc cggtgcga cctgctgc ccccgagc ggcggcaag cctgcaggg tccgtgactg cagactaagc tctgagtat ggtgctgc ccggtggaag gccagtggtt agaatgggt ccctggggc catgtccc gtcctgtgc aatgggacc aacagcgag ccggaagtgc agcgtggcg gcccagctg ggccacatgc acgggtccc tcactgacac ccgggagtc agcaacctgc agtgcggc cactatagc aagtggggc catggaatgc gtggagcctg tgtctaaaga cgtgtgacac aggtggcag cgcgcttc ccctgtgcca ggcacggc acgagggt acctgtcga gggcaccgga gaggaggtga agcctgtag tgagaagag tgtccagcct tccatgagat gtgagggat ggtacgtga tgcctgatc gtggaagaa gcagctgtg gcgagatcat ctacaacaag tggccccga atgcctcag gtctgccagc cgcgctgtc tctcagtc ccaaggcgt ggcactgtg ggtgcccag cttgtctgc tgcactccc atgagtagc ctacctgtat ctgtcactta gggagcacct ggccaaagg	Homo sapiens
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344	5520	Brain-Specific Angiogenesis Inhibitor 2	NP_001694.1	<p> cgcgcgacac ccagcgcccg ccaagtgtccc gagccagggg agcgagcgg gaccatgcct cgaccgtgc cgggtctctac catgaagatg ggctcccttg agcgaaagaa attacgggtat tcagacctgg accttgaggt gatgcacacc cggaaacggc attcagaact ctaccacgag ctcaaccaga agtccacac ttctgaccgc tacgcagcc agtccacggc caagagggag aagcgttggg gtgtgtcttc ggtgtgggcy cgcagcgga cgtgtgtcac cgataagccc agccctgggg agcgccccc cttgtcccaa ctcgtgcgc atcagagctg gagcaccttc aaatctatga cactgggctc gctgcccccc aagccccgag aacggctgac tctgcacggg gcagcagcct gggagccac agaaccacg gatgtgact tccagacaga ggtgtgagtg ccagctgga ctgcccactg catataaata tatatatctc tetattttca cactccactt tggaactacc caggagccag cgcctctcc' cctctccga gggctgggca gggagcgcc gtgactcag ccaggtggg gggagcggg atggcttggc ctgggggtccc agggcccttc ctgtttctc agaggcccc cagccactg accccatct tcagccacg cgtgccgtcc ctgtccccgg ctggggaggg gggaggggaa cttgtgtgg aataaacttc actctgtgg MTPACPLLS VILSRLATA FDPAPSACSA LASGLYGAF SIQDLFPTIA SGCSTLENP P DPTKYSLYLR FNREQVCAH FAPRLPLDH YLVNFTCLRP SPEEAVAQAE SEVGRPEEEE AEAAGLELC SCSGPTFIH FDNFVQLCL SAEPEAPRL LAPAALAFRF VEVILLINNN SSQFTCGVLC RWSECGRAA GRACGFAQPG CSCPEAGAG STTTSPGPP AAHTLSNALV PGGPAPPAEA DLHSGSSNDL FTTEMRYGEE PEEPKVKTQ WPRSADEPGL YMAQTGDPA EEMSPWVCS LTCQGLQVR TRSCVSSPYG TLCSGPLRET RPNNSATCP VHGWEWGS WSLCSRSCGR GSRSMRTCV PPOHGGKACE GPELQTKLCS MAACPVEGQW LEWGPWGPCS TSCANGTQQR SRKCSVAGPA WATCTGALTD TRECSNLECP ATDSKWGPWN AWSLCSKTC TGWQRFRMC QATGTQGYPC EGTGEEVKPC SEKRCFAFHE MCRDEYVNLW TWKAAAGEI IYNKCPNAS GSASRRCLS AQGVAYWGLP SEARCISHEY RYLVLISREH LAKQQRMLAG EGMSQVVRSL QELLARTTY SGDLFSVDI LRNVDTFKR ATYVPSADDV QRFQVVSFM VDAENKEKWD DAQVSPGSV HLLRWEDFI HLVDALKAF QSSLIVTDNL VISIQREPVS AVSSDITFPM RGRGMKDWV RHSEDRFLFP KEVLSLSPG KPATSGAAGS PGRGRPGTV PPGPGHSHQR LLPADPDESS YFVIGAVLYR TJGLILPPPR PPLAVTSRVM TVTVRPPTQP PAEPLITVEL SYIINGTDP HCASWDYSRA DASSGDMDE NCOTLETOAA HTRCQCOHLS TFAVLAQPPK DLLELAGSP SVPLVIGCAV SCMLLTLLA IYAAFWRFIK SERSIILLNF CLSLASNIL ILVGQSRVLS KGVCTMTAAF LHFFFLSSFC WVLTEAWQSY LAVIGRMTR LVRKRELCIG WGLPALWAV SVGTRTKGY GTSSYCWLSL EGGLLYAFVG PAAVIVLVNM LIGIIVFNKL MARDGISDKS KKQRAGSERC PWASLLLPSCS ACGAVPSPLL SSASARNAMA SLWSSCVLP LLALTMSAV LAMTDRRSVL FOALFAVENS AQGFVITAVH CFLRREVQDV VKCMQGVCR DESEDSPDSC KNGQLQLSD FEKDVDLACQ TVLFKEVNTC NPSTITGTL RLSLDEDEEP KSCLVGPEGS LSFSLPGNI LVPMAASPL GEPPPPQEAN PVMCGEGGL RQLDLTLWRP TEPGSEGDY VLPRTLSLQ PGCGGGGGED APRARPEGTP RRAAKTVAHT EGYPSFLSVD HSLGLGPAY GSLQNPYGMT FQPPPTPSA RQVPEPERS RTMPRTVPGS TMKMSLERK KLRYSDDLDFE VMHTRKRHSE LYHEINQKFH TFDYRSQST AKREKRWSVS SGGAERSVC TDKPSPGERP SLSQHRRHQS WSTFKSMTLG SLPPKPRERL TELHRAAAWEP TEPPDGDFQT EV </p>	Homo sapiens
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345	5521	Brain-Specific Angiogenesis Inhibitor 3	NM_001704	gataaacaac ttacagaggg caaatgacat aggatgaagg ctgttcgtaa cctgctgatt A tataatttt ccactatct cctggttatg ttggattta atgtgccc agacttctg tgttcaactt tgggaagg agtcatttat gatacgtatt ctgtaagtga aatgtttcct aaaaacttta caaactgcac ttggacgctg gaaatccag atccaacca atatatgactt tacctgaat ttccaaaa ggacctagc tgcctaac ttcaactcct ggtttatcag tttgatcatt ttccocatga aaaaataaag gatcttttaa gaaagaatca ttctataatg caactctgca attccaagaa tgccttctgt ttctacagt atgataaaaa ttttattcaa atacgtcgag tattccaac taatttccca ggattacaga aaaaagggga agaagatcag aaatcttttt ttgagttttt ggtattgaac aaggtcagcc caagccagtt tggttgccat gtattatgta ctgtgttggg gagctgctta aatcagaaa atgggagaaac agaatactgt gggatcatgt atacaaaatg cacctgccc ttacgtggtg tgcacttga atgagcagac agagggtctg cagtcgctga tttgtttaa taactggtg cactgccc ttacccctga atgagcagac agagggtctg ctgaccagg agtgcacaa ccccaagtc tgcacttga atgagcagac agagggtctg cccaagaag aatttgaat gatggagat catacaatta aaggtcagc acctcgatct gttcatgaaa aaagggtccc tcaggaaaca cctgatgctg cttaatttat ggcaaaaact ggtgaatctg gtgtggaaga gtgtccccc ttgagcacat gtctggttac ttgtggtcaa gggtcgagg tgcgaaccag aactgtgtga tcaacttacc ggacacactg cagcgcccca ttaagagaa caagggttg caataacact gctctctgtc cagtcacag agtatgggag gaatgtcac catgagttt atgttcattt acatgtgtgtc gaggccaaag aacaagaaca aggtcatgca cactcctca gtatggagga aggcgtgtgt aggaacctga aacacatcat aagccttgta atattgctt ttgcccagtt gatggacagt ggcaagagtg ggttctgtg agcagtgct cagtaactg ctgaatgg actcagcaga gaagccggca gtgcactgca gctgcccag gaggctccga atgcagaggg ccatggggcag aaagcagaga gtgtataaac cctgaatgta cagccaatgg tcaatggaat cagtggggtc atggaggtg ttgttccaa tcctgtgat gcggttgga aaggcgaata aggcctgtc aggtgagcgt gataacaggg cagcaatgt aggaacggg cgaagaagt agaatgca gtgagcagc atgcccagca ccttatgaaa tatgccctga gattatctg atgtcagtg ttggaaaaag aactccagca ggcgacttg cattcaatca atgtcccctg aatgccacag gccactag cagacgctgc tctctcagtc ttcattgagt ggccttctg gacagccga gctttgcaag atgcatatca aatgagtaca gacacttgca gattcaatt aaagagcacc ttgtaagggt gcagcgaatg ctggcaggtg atggaatgt ccaggtgacc aagacactgt tggatttaac tcagagaaaa aatctctatg caggcgatct tctgatgtct gtggagatcc tgagaaatgt gacagacaca tttaaaagg caagttacat cctgcatct gatgtgtcc agacttctt tcaatagtt agcaaccttc tagtggaaga aacaaggaa aatgggaaag atgcacaca gatttatcca gggtcaatag agttaaagca ggtgattgaa gatattatc acattgttgg aatggggatg atggacttc agaattcata cttaatgact ggaatgttag tggtagtat tcagaagctt cctgcagcct ctgttctaac agacatcaac ttccaatga aagagcggaa gggaatggtt gactggggcaa gaaactcaga agatagggtg gtaattccaa aaagcatttt cactccggtg tcatacaaa aattagatga atcatctgta ttgttcttg gcgcagtcct atacaaaaac ttagatctaa tttgcccac tttagaaaat tatactgtca ttaattccaa aatcatctg gtcaacaataa ggcttggaacc caaaacaacc gatctgttc ttgagataga actagctcat	Homo sapiens
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Homo sapiens

P

NP_001695.1

Brain-Specific
Angiogenesis
Inhibitor 3

5521

346

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Homo sapiens

A

NM_006564

SIV/HIV
Receptor
BONZO

6031

347

348	6031	SIV/HIV Receptor BONZO	NP_006555.1	MAEHDYHEDY GFSSFNDSQQ EEHQDFLQFS KVFELPCMYLV VFVGLVGNLS LVLVISIFYH P KLQSLTDVFL VNLPLADLVF VCTLPFWAYA GIHEWVFGQV MCKSLLLGIYT INFYTSMLIL TCITVDFRIV VVKATKAYNQ QAKRMTWGVV TSLLIWVISL LVSLPQIIYG NVFNLDKLLC GYHDEAISTV VLAQTMTLGF FLPLITMIVC YSVIITKLLH AGGFQKHRSI KIIFLVMVAF LLTQMPFNLM KFIIRSTHWEY YAMTSFHYTI MVTEAIAIYLR ACLNEPVLXAF VSLKFRKNFW KLVDIGCLP YLGVSHQWKS SEDNSKTFSA SHNVEATSMF QL	Homo sapiens
349	6204	Lysophosphat idic Acid Receptor Edg4	NM_004720	gcccagatgg tcatcatggg ccagtgtctac tacaacgaga ccctcggtctt cttctataaac A aacagtggca aagagctcag cteccactgg cggcccaagg atgtgtgtcgt ggtggcactg gggtgaccg tcagcgtgct ggtgtgtctg accaatctgc tggatcatagc agccatcgcc tccaaccgcc gcttcaccca gccatctac taccgtctcg caaatctggc cgcggctgac ctcttcgagg cgttgcccta cctctcttc cctgtccaca tgggtcccc cccagccccg ctttcacttg agggctgggt cctgcggcag ggtgtgtctg acacaagcct cactgcgtcg gtggccacac tctgggcat cgcgtggag cggcacccga gtgtgatggc cgtgcagctg cacagccgcc tgcctctgg cgcgtggtc atgtctattg tggcgtgtg ggtggctgcc ctgggctctg ggtgtgtgccc tgcctactcc tggcactgccc tctgtgccc ggcgctgccc tcaegcatgg caccctgct cagcgtctcc tatttggccg tctgggctct gtcgagcctg cttgccttcc tgcctatggg ggtgtgtgac acccgcatctt tctctactg ggcggcgcca gtgcagcgca tggcagagca tgtcagctgc caccctcgct accgagagac cagctcagc	Homo sapiens

350	6204	Lysophosphat idic Acid Receptor Edg4	NP_004711.2	<p>ctggtcaaga ctgttgtcat catcctgggg gogttcgtg tctgctggac accaggccag gtggtactgc tctggatgg tttagctgt gagtcttgc atgtcctggc tgtagaaaaa tacttctac tgttggcga ggcacactca ctggtcaatg ctgctgtgta ctcttgccga gatgctgaga tgcgcccgc cttccgccc cttctctgt ggcgctgct ccgccagtc accgcgagt cbgtccacta tacatctct gccacgggag gtgccagcac tgcacatg cttcccgaaga acggccacc actgatggac tccaccctt agctacctg aacttcagc gtacgaggca agcaacaaat ccacagcccc tgatgacttg tgggtgctcc tggctcaacc caaccaacag gactgactg</p>	Homo sapiens
351	6213	C-C Chemokine Receptor 5	NM_000579	<p>cttcagatag attatatctg gagtgaagga tctgccacc taagtatctg gcatagtatt A ctgtgtagtg gtagtagcag agaaacaaaa caaataaatc cagtgaagaa agcccgtaaa taaaccttca gaccagagat ctattctcca gcttatttta agctcaactt aaaaagaaga actgttctct gattcttttc gcttcaata cacttaataa tttaactcca cctccttca aagaaacag cattctctac tttatatactg tctatatgac tgatttgcac agctcatctg gccagaagag ctgagacatc cgttccccta caagaaactc tccccgggtg gaacaagatg gattatcaag tgtcaagtcc aatctatgac ataattatt atacatcgga gccctgcca aaaatcaatg tgaagcaaat cgcagccgc cctcgtcctc cgtctactc actggtgttc atctttggtt ttgtgggcaa catgtgtgtc atctcatcc tgataaactg caaaaggctg aagagcatga ctgacatcta cctgtcaac ctggccatct ctgacctgtt tttccttctt actgtccctt tctgggctca ctatgtgccc gccagtggtg actttggaaa tacaatgtgt caactcttga cagggtctca ttttataggc tcttctcttg gaatcttctt catcatcctc ctgacaatcg ataggtaact ggtgtgtgtc catgtgtgtg ttgcttttaa agccaggacg gtcaccttg ggtggtgac aagtgtgac actgggtgg tggctgtgtt tggctctctc ccaggaaatca tctttaccag atctcaaaa gaaggtcttc attacacctg cagctctcat tttccataca gtacagtatca attctggaag aatttccaga cataaagat agtcatcttg gggtggtgccc tgcgctgct tgtcatggtc atctgctact cgggaatcct aaaaactctg cttcggtgtc gaaatgagaa gaagaggcac aggtctgtga ggttatctt caccatcatg attgtttatt tctcttcttg ggtccctac aacattgtcc tttctctgaa cacttccag gaattctttg gctgaataa ttgcagtagc tctaacaggt ttgaccaagc tatgcaggtg acagagactc ttgggatgac gcaactgtgc atcaacccca tcatctatgc ctttgcggg gagaagtcca gaaactacct cttagtcttc ttccaaaagc acattgcca acgttctgc aaatgctgtt ctattttcca gcaagaggct ccgagcgag caagctcagt ttacacccga tccactgggg agcaggaaat atctgtgggc ttgtgacacg gactcaagtg ggtggtgac ccagtcagag ttgtgcacat ggttagttt tcatacacag cctgggctgg ggtgggggtg ggagaggctc ttttaaaaag gaagttactg ttatagaggg tctaagattc atccatttat ttggcatctg tttaaagtag attagatctt ttaagcccat caattataga aagccaaatc</p>	Homo sapiens

352	6213	C-C	NP_000570.1	MDYQVSSPIY DINYTSEPC QKINVQIAA RLPLPLYSLV FIFGVGNML VILILNCKR P	Homo sapiens
		Chemokine		gacaaactct ccttcactc gaaagttcc ttatgtatat ttacatgca tcaagttatt	
		Receptor	5	attgctgatt ctgtagttta gtgacttgaa cagaaatacc aaaattattt cagaaatgta	
				caacttttta cctagtacaa ggcaacatat aggttgtaa tgtgtttaaa acaggtcttt	
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				caaccacagg cagcatttag cacatactac acattcaata agcatcaaac tcttagttac	
				tcattcagg atagcactga gcaagcatt gagcaagggt gtccatata ggtgagggaa	
				gcttgaaaaa ctaagatgct gctgcccag tgcacacaa gtaggtatc atttctgca	
				tttaaccgtc aataggcaaa ggggggaagg gacatatcca ttggaaaaa agctgccttg	
				agccttaaaa' cccacaaaag tacaatttac cagctctcctt attcagact gaatgggggt	
				ggggggggcg ccttaggtac ttatccaga tgccttctcc agacaaacca gaagcaacag	
				aaaaaatcgt ctctccctcc cttgaaatg aatatacccc ttagtgtttg ggtatatcca	
				tttcaaaagg agagagagag gtttttctt gtcttctc atatgattgt gcacatactt	
				gagactgtt tgaatttggg ggaaggctaa aaccatcata gtacaggtaa ggtgagggaa	
				tagtaagtgg tgaactacac tcagggaatg aaggtgtcag aataataaga ggtgctactg	
				actttctcag cctctgaata tgaacggtga gcattgtggc tgtcagcagg aagcaacgaa	
				gggaaatgct ttctcttttg ctcttaagtt gtggagagtg caacagtgc ataggaccct	
				accctctggg ccaagtcaaa gacattctga catcttagta ttgtcatatt cttatgtatg	
				tgaaggttac aaattgcttg aaagaaaaa tgcattcaat aaaaaacacc ttcta	
				LKSMFDIYLL NLAIIDLFFL LTVPFWAHYA AAQWDFGNM CQLLTGLYFI GFSGIFFII	
				LLTIDRYLAV VHAVFALKAR TVTGVVTSV ITWVAVFAS LPGIIFTRSQ KEGLHYTCSS	
				HFYPSQYQFW KNFQILKIVI LGLVPLLM VICYSGLKT LLRCRNEKRR HRAVRLIFTI	
				MIVYFLFWAP YNIVLLINTF QEFGLNCS SSNRIDQAMQ VTETIGMTHC CINPIIYAFV	
				GEKFRNYLLV FFQKHAKRF CKCSIFQQE APERASSVYT RSTGEQEISV GL	

353	6363	Chemokine (C-C motif) Receptor- like 2 (CCR2)	NM_003965	<p>tctgtctgt ggaagtggg cacacgttaa aagaaatgtt tatttcagtc ttctgaaata A</p> <p>gggaattact ctggctaaaa ttagctcca gaaagggaag gtgggctgt atgaatccag</p> <p>gtccagtttg ttgtttctc caggataagg cagctgtcgg aggggaaaa catctcccat</p> <p>ttctccacag ggcagctga agatggccaa ttacacgctg gcaccagagg atgaatatga</p> <p>tgctctcata gaagtgaac tggagagcga tgaggcagc caatgtgaca agtatgaagc</p> <p>ccaggcacat teagcccgag tgggtccatc actctgtctc gctgtgttg tgatcggtgt</p> <p>ctgggacaat ctctgggtg tggttatctt ggtaaaaat aaaggactca aacgcgtgga</p> <p>aaatatctat ctctaaaa tggcagtttc taactgtgt ttcttgctta cctgcccc</p> <p>ctgggtctat gctggggggg atcccatgtg taaaattctc attgactgt acttcgtggg</p> <p>ctgtacagt gagacatttt tcaattgect tctgactgtg caaaggtaac tagtgtttt</p> <p>gcacaaggc aactttttct cagccaggag gaggtgtccc tgtggcatca ttacaagtgt</p> <p>cctggcatgg gtaacagcca ttctggccac ttgctctgaa tctgtgttt ataaacctca</p> <p>gatggaagac cagaaataca agtgtgcatt tagcagaact ccttctctc cagctgatga</p> <p>gacattctgg aagcattttc tgactttaaa atgaacatt tgggttcttg tctccccct</p> <p>attattttt acatttctct atgtgcaaat gagaaaaa ctaagggttca gggagcagag</p> <p>gtatagcctt ttaagcttg tttttgcat aatgtagtc ttcttctga tgtggcgcc</p> <p>ctacaattt gcatttttcc tgtccacttt caaagaacac ttctccctga gtgactgcaa</p> <p>gagcagctac aatctggaca aaagtgttca catcactaaa ctcactgcca ccaccactg</p> <p>ctgcatcaac cctctctctg atgctttctc tgatgggaca tttagcaaat aactctgccg</p> <p>ctgtttccat ctgcttagta acaccccat tcaacccagg gggcagctcg cacaaggcac</p> <p>atcgagggaa gaacttgacc attccaccga agtgtaaac agcatccacc aaatgcaaga</p> <p>agaataaaca tggattttca tcttctgca ttatttctat taaattttt acacatttgt</p> <p>atacaaaatc ggatacagga agaaaaggga gaggtagct aacatttct aagcactgaa</p> <p>tttgtctcag gcacgtgca aggtcttcta caaacgtgag ctctctgcc tctaccact</p> <p>tgctcatagt gtgatatga ctagtctcat ttctctgaga agaaaaactaa ggcgcggaaa</p> <p>tttgtctaag atcacataac taggaagtgg cagaactgat tctccagccc tggtagcatt</p> <p>tgctcagagc ctacgcttg tccagaacat caaactcaa accctggga caaacgacat</p> <p>gaaataaatg tatttaaaa catct</p>	Homo sapiens
354	6363	Chemokine (C-C motif) Receptor- like 2 (CCR2)	NP_003956.1	<p>LILVKYKGLK RVENIYLINL AVSNLCFLLT LPFWAHAGGD PMCKILIGLY FVGLYSETFF</p> <p>NCLLTVQRYL VFLHKGNNFS ARRRVPCGII TSVLAWVTAI LATLPEYVYVY KPQMEDQKYK</p> <p>CAFSRTFFLP ADEFWKHFL TLKMNISVLV LPLFIPTFLY VQMRKTLRFR EQRYSLFKLV</p> <p>FAIMVVFLLM WAPYNIAFFL STFKEHFSLS DCKSSYNLDK SVHTKLIAT THCCINPLLY</p> <p>AFLDCTFSKY LCRCFHLRSN TPLQPRGQSA QGTSREEPDH STEV</p> <p>atgcgagccc cgggcgcgct tctgcgccg atgtcgcggc tactgtctct gctactgtctc A</p> <p>aagtgctctg cctcttctgc cctcggggtc gccctgcgt ccagaaacga aacttgtctg</p> <p>gggagagact gtgcacctac agtgatccag cgcgcgggca gggacgcctg gggaccggga</p> <p>aattctgcaa gagagcttct gcgagcccca gcaaccaggg aggagcaggg ggcagcgttt</p> <p>cttgccgggac cctctggga cctgcggcg gccccgggc gtgacccggc tgacggcaga</p> <p>gggcccgaag cgtcggcagc cggacccccg ggaactcaa ccaggccacc tggccccctg</p> <p>aggtaggaaa gtgctcgggg tcaggagcct tctgaaactt tggggagagg gaacccacg</p>	Homo sapiens
355	6446	Pael Receptor (GPR37)	NM_005302		Homo sapiens

gcctccagc	tcttcttca	gatctcagag	gaggaagaga	aggggtccag	aggcgctggc			
atttcgggc	gtagccagga	gcagagtgtg	aagacagtcc	ccggagccag	cgatcttttt			
tactggccaa	ggagagccgg	gaaactccag	ggttcccacc	acaagccctt	gtccaagacg			
gccaatggac	tggcggggca	cgaaggggtg	acaattgcac	tcccggcccg	ggcgctggcc			
cagaatggat	ccttgggtga	aggaatccat	gagcctgggg	gtccccggcg	gggaacacg			
acgaaccggc	gtgtgagact	gaagaacccc	tcttaccgcg	tgaccacgga	gtcctatgga			
gcctacgcgg	tcattgtgct	gtccgtgggt	atcttcggga	cgcgcatcat	tggcaacctg			
gcggtgatgt	gcatacgttg	ccacaactac	tacatgcgga	gcatctccaa	ctccctcttg			
gccaaacctg	ccttctggga	ctttctcatc	atcttctctt	gecttccgct	ggtcatcttc			
cacgagctga	ccaagaagtg	gctgtggag	gacttctcct	gcaagatcgt	gcctatatata			
gaggtcgctt	ctctgggagt	caccaccttc	accttatgtg	ctctgtgcat	agaccgcttc			
cgtgctgcca	ccaactgaca	gatgtactac	gaaatgatcg	aaaactgttc	ctcaacaact			
gccaaacctg	ctgttatatg	ggtgggagct	ctattgttag	cacttccaga	agttgttctc			
cgccagctga	gcaaggagga	tttggggttt	agtggccgag	ctccggcaga	aaggtgcatt			
attaagatct	ctcctgatct	accagacacc	atctatgttc	tagccctcac	ctacgacagt			
gcgagactgt	ggtgttatct	tggctgttac	tttgtttgc	ccagcttttt	caccatcacc			
tgctctctag	tgactgagag	gaaaatccgc	aaagcagaga	aagcctgtac	ccgagggaat			
aaacggcaga	ttcaactaga	gagtcagatg	aactgtacag	tagtggcact	gaccatttta			
tatggatttt	gcattattcc	tgaaaatata	tgaacattg	ttactgccta	catgggtaca			
ggggtttcac	agcagacaat	ggacctcctt	aatatcatca	gccagtctct	tttgttcttt			
aagtcctgtg	tcaccacagt	ctcctctttc	tgtctctgca	aaccttccag	tcgggccttc			
atggagtgct	gctgctgttg	ctgtgaggaa	tgcattcaga	agttctcaac	ggtgaccagt			
gatgacaatg	acaacgagta	caccacggaa	ctggaactct	cgcctttcag	taccatacgc			
cgtgaaatgt	ccacttttgc	ttctgtcgga	actcattgct	ga				
NP_005293.1	MRAPGALLAR	MSRLLLLLLL	KVSASSALGV	APASRNCTCL	GESCAPTVIQ	RRGRDAWGP	P	Homo sapiens
	NSARDVLRAR	APREQGAAP	LAGPSWDLPA	APGRDPAAGR	GAESAAGPP	GPTRPPGPW		
	RWKGARGQEP	SETLGRGNPT	ALQLFLQISE	EEKGRPGAG	ISGRSQEQSV	KTVPGASDLF		
	YWPRRAGKLQ	GSHHKPLSKT	ANGLAGHEGW	TIALPGRALA	QNGSLGEGIH	EPGGPRRGNS		
	TNRRVRLKNP	FYPLTQESYG	AYAVMCLSV	IFGTGIIGNL	AVMCIVCHNY	YMRSISNSLL		
	ANLAFWDFLI	IFFCLPLVIF	HELTWKWLE	DFCKIVPYI	EVASLGVTF	TLCALCIDRF		
	RAATNVQMY	EMIENCSST	AKLAVIUVGA	LLALPEWVL	RQLSKEDLGF	SGRAPAERCI		
	IKISPDLPDT	IYVLALTYDS	ARLWYFGCY	FCLPLFTYT	CSLVTARKIR	KAEKACTRGN		
	KRQIQUESQM	NCTVVVALTIL	YGFCILPENI	CNIVTAYMAT	GVSQOTMDLL	NIISQFLFFF		
	KSCVTPVLLF	CLCKPFESRAF	MECCCCCEE	CIOKSSVTIS	DDNDNEYTTE	LELSPFSTIR		
	REMSTFASVG	THC						
356	6446	Pael Receptor (GPR37)						
			NP_003967					
			atgagagctg	tcttcatcca	aggtgctgaa	gagcaccctg	cggcattctg	ctaccaggtg
			aatgggtctt	gcccagagac	agtaataact	ctgggcatcc	agttggtcat	ctacctgacc
			tgtgceagcag	gcattgtgat	tatcgtgcta	gggaatgtat	ttgtggcatt	tgtgtgtgctc
			tacttcaaaag	cgcttcacac	gcccaccaac	tctcctgtgc	tctcctggc	cctggctgac
			atgtttcttg	gtctgtgctg	gctgcccctc	agcaccattc	gctcagtgga	gagctgctgg
			ttcttcgggg	acttctcttg	ccgctgtcac	acctacctgg	acacctctt	ctgcctcacc
357	6536	Putative Neurotransmitter Receptor (PNR)						
			NP_003967					
			atgagagctg	tcttcatcca	aggtgctgaa	gagcaccctg	cggcattctg	ctaccaggtg
			aatgggtctt	gcccagagac	agtaataact	ctgggcatcc	agttggtcat	ctacctgacc
			tgtgceagcag	gcattgtgat	tatcgtgcta	gggaatgtat	ttgtggcatt	tgtgtgtgctc
			tacttcaaaag	cgcttcacac	gcccaccaac	tctcctgtgc	tctcctggc	cctggctgac
			atgtttcttg	gtctgtgctg	gctgcccctc	agcaccattc	gctcagtgga	gagctgctgg
			ttcttcgggg	acttctcttg	ccgctgtcac	acctacctgg	acacctctt	ctgcctcacc

Homo sapiens

P

NP_003958.1

Putative Neurotransmitter Receptor (PNR)

6536

358

tcacatctcc atctctgttt cattccatt gaccgccact gtgccatctg tgacccccctg
ctctatccct ccaagttcac agtgagggtg gctctcaggt acatccctgc aggatg999g
gtgcccgcag catacacttc gttattcttc tacacagatg tggtagagac aaggctcagc
cagtggctgg aagagatgcc ttgtgtgggc agttgccagc ttatgatcag taaattttgg
ggctgggttaa acttcccttt gttctttgtc cctgcctca ttatgatcag taaattttgg
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aaccccatca tctatgtctt ttcttaccag tggtttcgga aggcactgaa actcacactg
agccagaagg tcttctcacc gcagacacgc actgttgatt tgtaccaaga atga
YFKALHTPTN FLLSLALAD NGSCPRTVHT LGIQLVIYLT CAAGMLIIVL GNVFAFAVS P
SIFHLCFISI DRHCAICDPL LYPSKFTVRV ALRVILAGWG VPAAYTSLEL YTDVWETRLS
QWLEEMPCVG SCQLLNKFW GWLNFPFLFFV PCIMISLYV KIFWVATRQA QQITTLKSLS
AGAAKHERKA AKTLGIVVGI YLLCWLPTFI DTWVDSLLHF ITPPLVFDIF IWFAYFNSAC
NPILYVFSYQ WFRKALKITL SQKVFSPTQR TVDLIYQE

Homo sapiens

A

NM_003272

G Protein-Coupled Receptor TM7SF1

6777

359

cgccgcgatg cggcgagacc cccgcggggg cggcgccggtg cgtgagcccc gatgagggccc
gagcgtcccc ggcgcgcggg cagcgcgccg gcccgcgatg agacccccgc gtgggaccca
gcccgcgaag actcgtgcg ccccacgctg acccggcccg tggcccccta cgtgaagctt
ggcctcaccg tegtctacac cgtgttctac gegtctctct tegtgttcat ctacgtgcag
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ctgtgtgccg tctctctc cactctctc tacaataatc ctaagatgc ctagccaac
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aacctggaa tgggtccccc ccatggattc agtcccagat cttatttctt tgacaacctt
cgaagatatg acagtgatga tgaacttgc tgaacattg cccctcaggg acttcaggga
ggttttgcct cagattacta tgattgggga caacaaacta acagcttctt ggcaacaaga
ggaactttgc aagactcaac ttgggtacct gacaaaccaa gccttgggta gcatcagtta
acagttttat ggacgattcc tcagatgaaa agcttcagaa aagcatagtg acagctgaat
tttaggggca ctttctctta agaatagaa ctgtgatttt ttattgttaca ggtttccaat
ggcccatag gaataagcaa taatgtagac tgataaaccc ttatttttagt actaaagagg

267/448

360	6777	G Protein- Coupled Receptor TM7SF1	NP_003263.1	MRPERPRRG SAPGPMETPP WDPARNDSLP PTITPAVPPY VKLGLTVVYT VFVALLFVFI P YVQLWLVLRY RHKRLSYQSV FLFLCLFWAS LRFVLSFYF KDEVAANSLS PFVFWLLYCF PVCLOFFTLT LMNLYFTQVI FKAISKYSPE LLKYLRLPLYL ASLIFISLVFL LVNLTCAVLV KTGNWERKVI VSVRVAINDT LFVLCVAVSL ICLYKISKMS LANIYLESKG SSVQCQVTAIG VTVILLYTSR ACYNLFILSF SONKSVHSFD YDMYNVSDQA DLKNQLGDAG YVLFQVVLV WELLPTTLV YFFRVNPTK DLNPGMVPS HGFSRPSYFF DNPRRYDSD DDLAWNIAPOG LQGFAPDY DWGQNTNSFL AQAGTLQDST LDPDKPSLG	Homo sapiens
361	6853	Purinergic Receptor P2Y11	NM_002566	atggatcgag gtgccaagtc ctgcccctgcc aacttcttgg cagctgccga cgacaaactc A agtgggttcc agggggactt cctgtggccc atactgtgtg gtgagttcct ggtggccgtg gccagcaatg gccctggcctt gtaccgcttc agcatccgga agcagcgcct atggcaccct gccgtgtgtc tctctgtcca gctggcagtc aggcacctg tctgcgtctc gacgtgccc ccgtggccg cctacctcta tcccccaag cactggcgtc atggggaggg cgtgtgccc ctggagcgtc tctcttccac ctgcaacctg ctgggcagcg tcatcttcat cacttgcatc agcctcaacc gctacctggg catcgtgcac ccttctctcg ccggaagcca cctgcgaccc aagcacgctt gggccgtgag cgtgcccggc tgggtcctgg ccgcccctgt ggcctatgcc acctcagct tctccacct gaagaggccg cagcaggggg cgggcaactg cagcgtggcc aggcccgagg cctgcatcaa gtgtctgggg acagcagacc acgggctggc ggcctacaga gcgtatagcc tgggtctggc ggggttggc tgcggcctgc cgtgtctgtc cactgtggca gcctacggcg cctcggggc ggcctgtcta ccagcccag gcatgactgt ggcggagaag ctgcgtgtgg cagcgttggg gccagtggt gtggccctct acgccagctc ctatgtgccc taccacatca tgggggtgct caactggat gctcggcggc gctggagcac ccgtgccc agctttgcag acatagccca ggcacagca gccctggagc tggggcccta cgtgggctac cagtgatgc gggccctcat gccctggcc tctgtgtcct accctctact ctacatggcc gcagtggcca gccctggcgt ctgctggcga cactggccc gctacagga cagctggaa ccagaggacg ccaagagcac tggccaagcc ctgcccctca atgccacagc cgcctctaaa ccgtcagagc ccagctccc tgaagtgcg caatga AVVFSVQLAV SDLLCALTLPLAAVLYPPK HWRYGEAACR LERFLFTCNL LGSVIFITCI SLNRYLGIVH PPFARSHLRP KHAWAVSAAG WVLAALLAMP TISFSLKRP OQGAGNCSVA RPEACIKCLG TADHGLAAYR AYSILVLAGL CGLPLLLTLA AYGALGRAVL RSPGMTVAEK LRVAALVAG VALYASSYVP YHIMRVINVD ARRWSTRCP SEADIAQATA ALELGPYVGY	Homo sapiens
362	6853	Purinergic Receptor P2Y11	NP_002557.1	MDRCAKSCPA NFLAAADDKL SGQGDFLWP ILVVEFLVAV ASNGLALYRF SIKQRPWHP P AVVFSVQLAV SDLLCALTLPLAAVLYPPK HWRYGEAACR LERFLFTCNL LGSVIFITCI SLNRYLGIVH PPFARSHLRP KHAWAVSAAG WVLAALLAMP TISFSLKRP OQGAGNCSVA RPEACIKCLG TADHGLAAYR AYSILVLAGL CGLPLLLTLA AYGALGRAVL RSPGMTVAEK LRVAALVAG VALYASSYVP YHIMRVINVD ARRWSTRCP SEADIAQATA ALELGPYVGY	Homo sapiens

363	6921	G Protein- Coupled Receptor GPR39	NM_001508	QVMRGLMPLA FCVHPLLMA AVPSLGCCCR HCPGYRDSWN PEDAKSTGQA LPLNATAAPK PSEPQSRRLS Q atggcttcac ccagcctccc gggcagtgac tgcctccaaa tcattgatca cagtcatgtc A cccagatttg aggtggccac ctggatcaaa atcacccctta ttctggtgta cctgatcatc ttcgtgatgg gctctctggg gaacagcgc accattcggg tcaccacagt gctgcagaag aaaggatact tgcagaagga ggtgacagac cacatggtga ttctggcttg ctcggacacatc ttggtgttcc tcatcgccat gcccatggag ttctacagca tcatctggaa tccctgacc acgtccagct acaccctgtc ctgcaagctg cacactttcc tcttcgaggc ctgcagctac gtacgctgc tgcactgtct gacactcagc tttagcgtct acatcgccat ctgtcacccc ttcaggtaaa aggtgtgtc gggaccttgc caggtgaagc tgctgattgg ctctgtctgg gtcacctccg cctgtgtggc actgcccctg ggttctact tgcacccgtg ccaccacag gtgaacgtgc ccagccaccg ggttctact tgcacccgtg ccaccacag cagcccgaga cctccaatat gtccatctgt accaacctct ccagccctg gaccgtgttc cagtcagca tcttcggcgc cttcgtgtgc tacctgtgtg tctgtcttc cgtagccttc atgtgtgga acatgatga ggtgtctcatg aaagccaga agggctcgt gggcgggggc acggggctc cgcagctgag gaagtccgag agcgaagaga gcaggaccgc caggaggcag accatcatct tcttgaggtc gattgtgtg acattggcgc tatctggat gcccaaccag attcggagga tcatggctgc ggcacaccc aagcacgact ggacgaggtc ctacttccg gcgtacatga tctctctccc cttcgtggag acgttttct acctcagctc ggtcatcaac ccgtcctgt acacgtgtc ctcgacgagc ttctggcggg tgttcgtgca ggtgtgtgc tgccgcctgt cgtgcagca cgcacacac gagaagcgc tgcggtaca tgcgactcc accacgaca ggcgcgctt tgtcagcgc cgttgcctc tgcggtccc ggcagctcc tctgcaagga gaactgagaa gatttctta agcactttc agagcaggc cgagccccag tctaaatccc agtcattgag tctcagatca ctagagccca actcagcgc gaaaccagcc aatctgtctg cagagaatgg ttttcaggag catgaattt ga NP_001499.1 MASPSLPQSD CSQIIDHSV PEFEVATWIK ITLILVYLII FVMGLLGNSA TIRVTQVLQK P KGYLQKEVTD HMYSLACSDI LVFLIGMPME FYSIWNPLT TSSYTLCKL HTLFEACSY ATLLHVLTL FERYIAICHP FRYKAVSGPC QVKLLIGFVW VTSALVALPL LFAMGTEYPL VNVPSHRGLT CNRSSTRHHE QPETSNSIC TNLSSRWTFV QSSIFGAFV YLVVLLSVAF MCWNMQVLM KSQKSLAGG TRPPQLRKSE SEESTARRQ TIFLRLIV TLAVCWMPNQ IRRIMAAKP KHDWTRSYFR AYMLLPFE TFFYLSVIN PLYTVSSQ FRRVFQVLC CRLSIQHANH EKRLRVHHS TTDSARFVQR PLLFASRRQS SARTEKIFL STFQSEAEPO SKQSLSLES LEPNSGAKPA NSAAENGFEQ HEV ggacaggtgc cccgggagct tcccgtcgc gaagacccag acggctgcag gagccccggc A agcctcgggg tcagcgccac catgaacgtc tccggctgcc caggggccgg gaacgcgagc caggcggggc ggcggggagg ctggcacccc caggcggtca tccgtccccct gctcttcgcg ctcatcttc tctgtggcac cgtgggcaac acgtggtgc tggcggtgct gctgcgcggc ggccagggcg tcagcactac caactgttc atcctaac tggcggtggc cgaactgtgt ttcatcctgt gctcgtgccc cttccaggcc accatctaca cctggacgg ctgggtgttc ggctcgtgc tgtgcaaggc ggtgcacttc ctcatcttc taccatgca cgcagcagc ttcacgctgg ccgcgctctc cctggacagg tatctggcca tccgtaccc cgtgcactcc	Homo sapiens
364	6921	G Protein- Coupled Receptor GPR39	NP_001499.1	KGYLQKEVTD HMYSLACSDI LVFLIGMPME FYSIWNPLT TSSYTLCKL HTLFEACSY ATLLHVLTL FERYIAICHP FRYKAVSGPC QVKLLIGFVW VTSALVALPL LFAMGTEYPL VNVPSHRGLT CNRSSTRHHE QPETSNSIC TNLSSRWTFV QSSIFGAFV YLVVLLSVAF MCWNMQVLM KSQKSLAGG TRPPQLRKSE SEESTARRQ TIFLRLIV TLAVCWMPNQ IRRIMAAKP KHDWTRSYFR AYMLLPFE TFFYLSVIN PLYTVSSQ FRRVFQVLC CRLSIQHANH EKRLRVHHS TTDSARFVQR PLLFASRRQS SARTEKIFL STFQSEAEPO SKQSLSLES LEPNSGAKPA NSAAENGFEQ HEV	Homo sapiens
365	7221	Galanin Receptor GalR2	NM_003857	ggacaggtgc cccgggagct tcccgtcgc gaagacccag acggctgcag gagccccggc A agcctcgggg tcagcgccac catgaacgtc tccggctgcc caggggccgg gaacgcgagc caggcggggc ggcggggagg ctggcacccc caggcggtca tccgtccccct gctcttcgcg ctcatcttc tctgtggcac cgtgggcaac acgtggtgc tggcggtgct gctgcgcggc ggccagggcg tcagcactac caactgttc atcctaac tggcggtggc cgaactgtgt ttcatcctgt gctcgtgccc cttccaggcc accatctaca cctggacgg ctgggtgttc ggctcgtgc tgtgcaaggc ggtgcacttc ctcatcttc taccatgca cgcagcagc ttcacgctgg ccgcgctctc cctggacagg tatctggcca tccgtaccc cgtgcactcc	Homo sapiens

366	7221	Galanin Receptor GalR2	NP_003848.1	<p>cgcgagctgc gcaacgcctcg aaacgcgctg gcagccatcg ggctcatctg ggggctgtcg ctgtcttctt cggggcccta cctgagctac taccgccagt cgcagctggc caacctgacc gtgtgccatc cgcgctggag cggccctcgc cgcgcgcga tggacatctg caccttgcgc ttcagctacc tgcctcctgt gctgggtctc ggctgacct acgcgcgcac cttgcgctac ctctggcgcg ccgtcgacc cgtggccgcg ggtggccggt cccggcgcgc caagcgcaag gtgacacgca tgatctctcat cgtggccgcg ctcttctcgc tctgttgat gcccaccac gcgctcatcc tctgcgtgtg gttcggccag ttcccgctca cgcgcgccac ttatgcgctt cgcctcctct cgcacctggt ctctcagcc aactcctcg tcaaccccat cgtttacgcg ctgggtctca agcaactccg caaaggcttc cgcagatct gcgcgggct gctgggcccgt gcccaggcc gagcctcggg ccgtgtgtgc gctgcgcgc ggggcacca cagtggcagc gtgttgagc gcgagtcacg cgacctgtg cacatgagc agcgggcggg ggcccttctg ccctgccccg gcgcttccca gccatgcac ctcgagccct gtcctggccc gtcctggcag ggcccaagg caggcgacag cactcgtacg gttgatgtgg cctgaagaca cttagcgggc gcgctgggat gtacacagat tggagtcatt gttgggggac cgtggggccc MNVSGCPGAG NASQAGGGG WHEAVIVPL LFALIFLVGT VGNLVLAVL LRGGQAVSTT P NLFILNLGVA DLGFIILCCVF FOATYITLDG WVGSLICKA VHFLIFLTMH ASSFTLAAVS LDYLAIRYP LHSRELTPR NALAAIGLIW GLSLFSGPY LSYRQSLA NLTVCHPAWS APRRAMDIC TFVFSYLLPV LVGLTYART LRYLWRAVDV VAAGSGARRA KRKVTMILI VAAFCLCWM PHHALILCVW FGQFPLTRAT YALRILSHLV SYANSCVNPI VYALVSKHFR KGFTICAGL LGRAPGRASG RVCAARGTH SCSVLERESS DLLHMEASG ALRCPGASQ PCILEPCPG SWQPKAGDS ILTVDA</p>	Homo sapiens
367	7246	Orexin Receptor 1	NM_001525	<p>ctctccttca ggaagttga ggtgagacc cgaaaagacc tgggtgcaag cctccaggca A ccctgaaggg agtgggctga gggctggccc aggtccctc ctctccctct gttagacctc ggatgcccc ctgctgcagc ggctcctgag ctcctgagc cctcagccac cccaggggcc cagatggggg tcccccttg cagcagagag cgtccccctg tgcctccaga ctatgaagat gagttctcc gctatctgtg gctgattat ctgtaccaca aacagtatga gtgggtcctc atcgagcct atgtggctgt gtcgtcgtg gccctgggtg gcaaacgct ggtctgcctg gcggtgtggc ggaaccacca catgaggaca gtcaccaact acttcattgt caacctgtcc ctggctgacg ttctgtgtgac tgctatctgc ctgcggcca gctgctggt ggacatcact gagtcctggc tgttcggcca tgcctcttgc aggtcctac cctatctaca ggtgtgttcc gtgtcagtg cagtgtaac tctcagcttc atcgccctgg accgtgtgta tgcctctg caccactat tgttcaagag cacagccccg cgggccccgt gctccatcct gggcatctgg gctgtgtcgc tggccatcat ggtgccccag cgtcgagctga tggaaatgcag cagtgtgtg ctgtgagtag ccaaccgac cggctcttc tcagctctg atgaacgctg ggcagatgac ctctatccca agatctacca cagttgcttc ttattgttca cctacctggc cccactgggc ctcatggcca tggcctattt ccagatatcc cgaagctct gggggccgcca gatccccgc accaactcag cactggtgcg gaactggaag cgcctcag accagctggg ggacctggag cagggcctga gtggagagcc ccagccccgg ggcgcgcct tctgtgctga agtgaagcag atgctgtcac ggaggaagac agccaagatg ctgatgtgtg tgtgtgtgtt cttcgcctc tgtacactgc ccatcagcgt cctcaatgtc cttaagaggg tgttcgggat gtcccgccaa gccagtgacc cgaagctgt ctacgcctgc ttcaacttct cccactggct ggtgtacgccc</p>	Homo sapiens

368	7246	Orexin Receptor 1	NP_001516.1	MEPSATPQAQ MGVPDGRREP SPVPDYEDE FLRYLWRDYL YPKQYEWVLI AAYVAVFVVA P LVGNTLVCLA VWRNHMRVT TNYFIWNLSL ADVLTAICL PASLLVDITE SWLFHALCK VIPYLAQVSV SVAVLTLSEI ALDRWYAICH PLLEFKSTARR ARGSLIGIWA VSLAIMVPOA AVMECSVLP ELANRTRIFS VCDERWADDL YPKIVHSCFF IVTYLAPLGL MAMAYFQIFR KLWGRQIPGT TSALVRNWK RPSDQLGDLEQ GLSGEPQPRG RAFLAEVKQM RARRKTAQML MVLVLFALC YLPISVINVL KRVTGMRQA SDREAVYACF TFSHWLVYAN SAAPFIYNF LSGKFRQEFK AAFSCCLPGL GPCGSLKAPS PRSSASHKSL SLQSRCSISK ISEHVVLTSV TTVLP	Homo sapiens
369	7247	Orexin Receptor 2	NM_001526	gggggggggg taattgagct tcagctgagc cggacgtagc tttctctccc tgggtgctatt A gctgcagcct ccagtgccgg gtccctagtt cctcagctgc ctatcttccc ggtgcaacat cgctgtataa gacagcaaaag ccacgcgaga agttgcccgg cagaagactc cggaggcatt ggctcagtaa ctttccagct cacttctgc tcgggagccc ctctagcct tccgcgcag ccttccac cgcaaatcac cagtctcat ggagcagcg ggagagact tgcagcattg agcggaaacg gacttgagcc cgtgatgtcc ggcaccaa tggaggactc cccccctgt cgcaactggt catctgttc ggagctgaat gaaactcaag agccctttt aaacccacc gactatgacg acgaggaatt cctgcggtac ctgtggaggg aatacctgca ccgaaagaa tatgagtggg tcctgatcgc cgggtacatc atcgtgttcg tcgtggtctc cattgggaac gtcctgggtt gtgtggcagt gtggagaac caccacatga ggacggtaac caactacttc atagtcacatc tttctctggc tgatgtgttc gtgacctca cctgccttcc agccactg gtcgtggata tcaactgagac ctgggttttt ggacagctccc ttgcaaaagt gattccttat ctacagaccg tgcggtgtc tgtgtctgtc ctacacatga cctgtatcgc ctggatcgg tggtatgcaa tctgtcacc tttgatgtt aagagcacag caaagcgggc cgttaacagc attgtcatca tctggattgt cctctgcat ataatgattc ctcaggccat cgtcatggag tgcagcaccg tgttccacg cttagccaat aaacccacc tctttacggt gtgtgatgag cgctgggggt gtgaaattta tcccagatg taccacatct gtttcttct ggtgacatac atggcaccac tgtgttccat tttgttggct tatctgcaa tttctgcaa actctggtgt cgacagatcc ctggaacatc atctgtagt cagagaaaat tgaagccctt gcagcctggt tcacagcctc gagggccagg acagccaaacg agtcccgga ttgagcctgt ggcgctgaa ataaagcaga tccgagccag aaggaaca gcccgatgt tgatgttgt gcttttgga tttgcaattt gctatctacc aattagcatc ctcaatgtgc taaagagagt atttgggatg tttgcccata ctgaagacag agagactgtg tatgctggt ttacctttc acactggctt gtatatgcca atagtgtgc gaatccaatt atttaaat ttctcagtg aaaattcga gaggaattta agctgcgtt ttctgtgtg tgcctggag ttccacatcg ccaggaggat cggtcacca ggggacgaac tagcacagag agccggaagt ccttgaccac tcaaatcagc	Homo sapiens

370	7247	Orexin Receptor 2	NP_001517.1	<p>aaatttgata acatatcaaa actttctgag caagtgtgc tcaatagcat aagcacactc ccagcagcca atggcgcagg accattcaa aactggtaga atattattc atatgacaag gatactgag taaaactatc ctttttaaaa tcactgggaa cagaaaatttt attatcctat gatgtgaagc taaaattact tgtggatcct ttttttttt aatctattgc tctttggaaa taaaaaaaa gtcagtttaa aatgaaaaa aaaaaaaa aaa MSGTKLEDSP PCRNWSSASE LNETQEPFLN PTDYDDEEFL RYLWREYLHP KEYEWVLIAG P YIIIVFVALI GNVLCVAVW KNHMRVTIN YFIVNLSLAD YLVTITCLPA TLVVDITETW FFGQSICKVI PYLQTVSVSV SVLTLSIAL DRWYAICHPL MFKSTAKRAR NSIVIWIIVS CIIMIPQAIW MECSTVFPGL ANKTTLETVV DERWGGEIYP KMYHICFFLV TYMAPLCLMV LAYLQIFRKL WCRQIPGTSS VVQRKWKPLQ PVSQPRGPGQ PTKSRMSAVA AEIKQIRARR KTARMLMWL LVFAICYLPI SILNVLKRVF GMEFHTEDRE TVYAWFTFSH WLVYANSAAN PIIYNFLSGK FREEFKAAFS CCCLGVHHRQ EDRLTRGRTS TESRKSLLTQ ISNFDNISKL SEQVLTLSIS TLPAAAGAGP LQNW</p>	Homo sapiens
371	8436	Platelet- Activating Factor Receptor	NM_000952	<p>ccagctgata ttccagccca cagcaatgga gccacatgac tcctcccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcatc tttgtgtcgc gggctattgc taatggctac gtgtgtggtg tctttgcccg cctgtaccct tgcagaataa tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc tcttgatca ccttgccact ttggattgtc tactaccaaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaacacctc ctgtctctgt gcttctctgg cgctcatcac ttataaccgc ttccaggcag taactggccc catcaagact gctcaggcca acaccgcaa gcgtggcatc tctttgtcct tggtcactcg ggtggccatt gtgggagctg catctactat cctcatcctg gactctacca acacagtgcg cgacagtgtc ggtcaggcca acgtcactcg ctgctttgag cattacgaga agggcagcgt gccagtcttc atcatccaca tcttcatcgt gttcagcttc ttcctggtct tcctcatcat cctctctgc aacctgtga tcatccgtac cttgcctatg cagccggtgc agcagcagcg caacgtgaa gtcaagcgcc gggcgtgtg gatggtgtgc accgtcttgg cgtgttcat catctgtctc gtgcccacc acgtgtgca gctgcccctg acccttgctg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgacatc caggtcaccc tctgctcct tagcaccaac tgtgtcttag acctgttat ctactgttcc ctaccaaga agttccgcaa gcacctacc gaaaagtctt acagcatgcg cagtagccgg aaatgctccc gggccaccac ggatacgtc actgaagtggt ttgtgccatt caaccagatc cctggcaatt cctcaaaaa ttagtcttgc cttc MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVLMVF ARLYPCKKEN EIKIFMNLIT P MADMLFLITL PLWIVYQNG GNWILPKFLC NVAGLFFIN TYCSVAFLGV ITYNRQAVT RPIKTAQANT RKRGISLSLV IWAIVGAAS YFLILDSTNT VPDSAGSGNV TRCFEHEYKG SVPVLIHIF IVFSFLVFL IILFCNLVII RLLMQPVQQ QRNAEVKRRR LWMVCTVLAV FIICFVPHHV VOLPWLAEI GFQDSKFHQA INDAHQVTLCL LLSTNCVLDL VIYCLTKKF RKHLTEKFS MRSSRKCSRA TTDVTTEVV PFNQIPGNSL KN</p>	Homo sapiens
373	8509	G Protein- Coupled Receptor Is8509	NM_007223	<p>tgggggcgctc ctccctgttc cccgcgcgcg tgtcaagctg tgttctagcg gccaggggac A cgaggggggc taagaaaggg ggcgccagc catcgagagg caaaaggcg ctgcggaacg gggtccccgt cgccagtgtc gaggcaggag gtcgagcca caagtgggg gctgggaaagc aggaccagc acgggcgtct tggcaggcgg ccgggcgcag ggcaggctg ctggggacgc</p>	Homo sapiens

tcaggggctt ccaccaagc catgggagc gtcgggagc cgggggctcc ctctgggctc
cgccactcg cgtgggcat tacgttggct tcaatcgcc atccagctc gaagccaaca
ggactgaaaa atagcttcgg ccaaacgttc tctcccgct aaggagagg gtcgagtgcg
tcagcccgag gggactggag agggatgcc tagccctcga gggcgagg acccgcggtt
gaaggaggca cgggagcgg agagcgccct ccttgacct cgaatgcctc ctctgtgtt
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cgcgagccg ggtccaccg ctgcaccatg gacataacgg gagctggatc tctccaaatg
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tggctctgtt gcccttcgac atcatctca gcccagtc tcaactgttc tgggtggatct
acaccatgct cttctgcaag gtctcaaat ttttgcaaa agtattctgc tctgtgacca
tcttcagctt cctgctatt gctttggaca ggtactact agtctctat ccaactggaga
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tggccagtgt cctgtgttt gcagtaacca atgtggctga cactatgcc acgtccacct
gcacggaagt ctggagcaac tcttgggccc acctgggtga cgttctgtg tataacatca
ccaggtcat tgtgctgtg gtggtgggtg tctctctct gatactgac cgaaggggccc
tgagtgcag ccagaagaag aagtcataca tagcagcgt cgggacccca cagaacacca
tctctattcc ctatgcctcc cagcgggagg ccgagctgca gccacccctg ctctccatgg
tgatgggtctt catcttgtt agcgtgccct atgccacctt ggtcgtctac cagactgtgc
tcaatgtccc tgacactcc gctctcttgc tgcctactgc tgttggctg ccaaaagtct
cctgtctggc aaacctgtt ctcttcttta ctgtgaacaa atctgtccgc aadtgcttga
tagggacctt ggtgcaacta caccaccgtt acagtcccg taatgtgtc agtacaggga
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ccaagtacat tggctcagct gacttccagg ccaaggagat atttagacc tgcctggagg
gagagcagg gccacagttt cgcctctctg cccacccctt gagcacagt gactctgtat
cccaggtggc accggcagcc cctgtggaac ctgaacatt cctgataag tatccctgc
agtgtggctt tgggctttt gagtgcctc ctcagtggct ctgagagacc cgaacacaga
agaaaggctt gcttcccc tttgggcaaca cccagaaga gctgagacc acaagggtgc
ccaaggtagg cagggtggag cggagatga gcagaacaa taaagtgagc attttccaa
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accagagtgt ggggaatgctg tggccatgtg attgtatgat ctccttgcaa ctcagtgtga
gttgattcct ccaatatggg ccagatgctt ttgaatgata ggaatatcta cataaatcc
agtgtcctct ttatbgagg agtatatgta tccatctcag tgatccatgt ccttagtgaa
gtccacatta ttctctgtgg ggacaagagc tgggcagttt tgaatgggtc ttgagggtggg

374	8509	G Protein- Coupled Receptor Ls8509	NP_009154.1	<p>taccccatgt gcaactttctg aggatgcctc acttcccttg gctctgcaga gaacacacag agagaagact ttcagagctc acagagcag ggaagcaggag cactctaagg gaattc MGHNGSWISP NASEPHNASG AEAAGWNRS A LGEFGEAQLY RQFTTTVQVV IFIGSLIGNF P MVLWSTCRJT VEKSVTNRFI KNLACSGICA SILVCPFDII LSTSPHCCWW IYTMFLCKVV KFLHKVFCVS TILSFPAIAL DRYSVLYPL ERKISDKAR ELVMYIWAHA VVASVPVFAV TNVADIYATS TCTEWSNSL GHLYVVLVYN ITTVIVPVV VFLELILIRR ALSASQKKVV IIAALRTPQN TISIPYASQR EAEHLATLLS MMVFILCSV PYATLVVYQT VLNVPDTSVF LLTAVWLPK VSLLANPVLF ITVNKSVRKC LIGTLVOLHH RYSRRNVVST GSGMAEASLE PSIRSGSOLL EMFHIGQQOI FKPTDEDEES EAKYIGSADF QAKEIFSTCL EGEQGPQFAP SAPPLSTVDS VSQVAPAPV EETFPDKYS LQFGFGPFEL PPQWLSETRN SKKRLLPPLG NTPPELIQTK VPKVGRVERK MSRNKVSIF PKVDS</p>	Homo sapiens
375	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NM_006173	<p>ttgataggga tagaaacaca ttggctgctg tctatagtta acaagatgct gttacattcc A ttgctcact agctctgaag actatactag cgggacaaaag aaagcacctg agatgagctg agaggagggt aaaggtacac agagatcccc tggatatattg ttctatgtcc tctcaggggc ttggtctacca ctagagaatt atccatatta agaacttgca ttgatattct gggttctggt tcaattttta ggggtcacaag agcagctca agtcaattcac atgtttccat caaatacaga cacagatcag ggaagattaa accctactaa ttctcgtcg gatgcctcac acaaggtgc cttccaagaa ctaatggcca aaatatccac ccacaacaca aataagctta gaaaatctct tcttacaatc ctgacacaat ggaagtcttc ctaaacacc cagcatctaa tacaaccagc acaaagaaca acaactcggc atttttttac tttagatctt gtcacacctc ttctccagct ttactcctat tatgcatagc ctatactgtg gtcttaattg tgggaccttt tggaaacctc tctctcatca tcatcatctt taagaagcag agaaaagctc agaatctcac cagcatactg attggcaatc tctccctctc tgataacctg gtgtgtgtca tgtgcatacca ttttactate atctacacac tgatggacca ctggatatatt ggggatacca tgtgcagact cacatcctat gtgcagagt tctcaatctc tgtgtccata ttctcactg tattcactgc tgcgaaaga tatcagctaa ttgtgaacct cgtggctgg agcccagtg tgactcatgc ctactggggc atcacactga ttgtgctgtt ttccctctg ctgtctattc ctttcttct gtcctaccac ctcactgatg agcccttccg caactctct ctcccactg acctctacac ccaccagggtg gctgtgtgg agaaactggcc ctcaaaaag gaccggctgc tctcaccac ctccctttt ctgctgcagt atttgttcc tctaggcttc atcctcatct gctacttgaa gattgttate tgcctccgca ggagaaatgc aaagtagat aagaagaagg aaaaatgagg cgggctcaat gagaaacaaga ggaatcaaac aatgttgatt tcatcctg tgcctttgg agcctgctgg ctgccccgaa tatcttcaat tcatctttg actggtatca tgaggtgctg atgagctgcc accacgacct ggtatttcta gtttgcact tgggtgctat ggtttccaca tgtataaacc ctctcttta tggctttctc acaaaaatt tccaaaagga cctggtagtg cttattcacc actgctgggtg ctccacacct caggaaagat gtgaaaatat tgcctatctc actatgcaca cagactccaa gaggtcttta agattggctc gtataacaac aggtatatga aaattgataa tgctgaagct ctcttgaat gggagctgga caggtaattg tgggaatagg gcaagatgca gaagaagaa accagaacca aaatagcaa ctttataccc actttcctt taggctaaga ctgctgtctc catatgtcta tccaacacac ctccaacat acagaaacac acataccacc ccttttctct taagaaaaa actctaataa ttcaaaaacac ctgcccccca tcatttgtgg</p>	Homo sapiens

376	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NP_006164.1	mevslnhpas nttstknns affyfesccp pspallllci aytvvlivgl fgnlsliiii P fkkgkkaqnf tsilianlsl sdtlvcmci hftiyltmd hwifgdtmcr ltsyvqsvsi svsifslvft averyqlvnm prgwkpsvth aywgtliwl fslllsipff lsyhltdepf rnslsptdly thqvacvnew pskkdrllft tsllflqyfv plgfilicyl kiviclrrrn akvdkkkene grlnenkrin tmlislvvtf gacwlpriiss msltgmimrc cattcccacc ctctcttctt taataagcag gagcgaaaaa gacaaattcc aaagaggatt A gttcagttca agggaaatgaa gaattcagaa taattttggt aaatggattc caatcctggg aataagaata agctgaacag ttgacctgct ttgaagaaac atactgtcca ttgtctaaa ataatctata acaaccaaac caatcaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgccag cttctggctt ttgaaaaatga tgattgtcat ctgccccttg ccatgatatt taccttagct cttgcttatg gagctgtgat cattcttggt gtctctggaa acctggcctt gatcataatc atcttgaaac aaaaggagat gagaaatggt accaacatcc tgattgtgaa ccttctcttc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac attaatggac cactgggtct ttggtgaggg gatgtgaag ttgaatcctt ttgtgcaatg tgtttcaatc actgtgtcca tttctctct ggttctcat gctgtggaac gacatcagct gataatcaac cctcgagggt ggagacaaa taatagacat gcttatttag gtattgctgt gatttgggtc cttgctgtgg cttctcttt gcctttctcg atctaccaag taatgactga tgagccgttc caaatgttaa cacttgatgc gtacaaagac aaatacgtgt gctttgatca atttccatcg gactctcata ggttgcttta taccactctc ctcttggtgc tgcatgattt tgggtccactt tgttttatat ttatttgcta cttcaagata tatatacgcc taaaaaggag aaacaacatg atggacaaga tgagagacaa taagtacagg tccagtgaac ccaaaagaat caatatcatg ctgctctcca ttgtggtagc atttgacgtc tgttggtccc cttcttaccat ctttaacact gtgtttgatt ggaatcatca gatcattgct acctgcaacc acaatctgtt attctgctc tgccacctca cagcaatgat atccacttgt gtcaacccca tattttatgg gtctctgaac aaaaacttcc agagagactt gcagttcttc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gccagtcgc atttaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaactact tatagcctat ggtcccggtat gacatctggt taaaaacaag cacaacctgc aacatacttt gattacctgt tctcccaagg aatgggggttg aaatcatattg aaatgacta agattttctt gtcttgcttt ttactgcttt tgttgtagtt gtcataaata catttggaaac aaaagggtgtg ggcttggggg tcttctggaa atagttttga ccagacatct ttgaagtgtc ttttgtgaat ttatgcatat aatataaaga cttttatact gtacttattg gaatgaatt tctttaaagt attacgatgc gttgacttca gaagtacctg ccatacaata cggtcattag attgggtcat cttgattaga ttagattaga ttagattgtc aacagattgg gccatcctta ctttatgata ggcatacttt tagtgtgta caatagtaac agtatgcaa agcagcattc aggagccgaa agatagtctt gaagtcattc agaagtggtt tgaggtttct gtttttgggt ggttttgggt tgttttttt ttttttcacc ttaaggagggt ctttctattc ctcccgactg attgtcactt aaatcaaaat	Homo sapiens
377	9421	Neuropeptide Y Receptor Type 1	nm_000909		

378	9421	Neuropeptide NP_000900.1 Y Receptor Type 1	<p> ttaaaaaatga ataaaaagac atacttctca gctgcaataa ttatggagaa ttggggcacc acaggaatga agagagaaag cagctcccca actcaaaa ctttttgta cctgacaa agagcatttt agagtaatta atttaataa gtaaattagt attgctgcaa atagctaaat tatatttatt tgaattgatg gtaagagat ttccatttt ttctacagac tgttcagtgt ttgtcaagct tctggtctaa tatgtactcg aaagactttc cgttacaaat ttgtagaaac acaaatatcg tttccatac agcagtgcct atatagtac tgaatttaac ttcaaatgtc catctttcaa aggaagtaac accaagtac atagttaaag gaattttcac tttaacctagc agggaaaaat acacaaaaac tgcagatact tcatatagcc cattttaact tgtataaact gtgtgacttg tggcgtctta taaataatgc actgtaaga ttaactgaata gtgtgtgcat gtaaatgtgc ctaatttcat gtatcttgta atcatgattg agcctcagaa tcaattggag aaactatatt ttaagaaca agacatactt caatgtatta tacagataaa gtattacatg tgttgattt taaaagggcg gacattttat ttttctcat cccatgactt cctccgatg gt ggagtctctt tcaagttcat ttttctcat cccatgactt cctccgatg gt MNSTLFSQVE NHSVHSNFSE KNAQLLAFEN DDCHLPLAMI FTLALAYGAV IILGVSGNLA P LIIILKQKE MRNVNIIIV NLSFSDLLVA IMCLPFTFVY TLMDDHWVGE AMCKLNPFVQ CVSITVSIFS LVLI AVERHQ LIINPRGWRP NNRHAYVGIA VIWVLAVASS LPFLIYQVMT DEPFQNVTL D AYKDKYVCFD QFPSDSHRLS YTTLLJLVQY FGPLCFIFIC YFKIYIRLKR RNNMMDKMRD NKYRSSETKR INIMLLSIV AFAVCWLPLT IFNTVFDWNH QIATCNHNL LFLHLTLTAM ISTCVNPIFY GFNLKNFQRD LQFFNFCD F RSRDDDYETI AMSTMHTDVS KTSLLKQASPV AFKKNND D NEKI agccgagcga gcccgaggat gggcgaggc cgcagactcc gtctcgtcaa ggccttctc A cttctggggc tgaaccccg cctgcctcc ctcagagacc agcactgcga gagctgtcc ctggccagca acatctcaga caatggctac cggagtgcc tggccaatgg cagctggcc gcccgcgta attactccga gtgccaggag atctcactg aggaagaaaa aagcaagggtg cactaccatg tcgcagtcac catcaactac ctggggccact gtatctccct ggtggccctc ctggtggcct ttgtctcttt tctgcggtc aggaagcacc cgtgctgcy aaacatcatc cactggaacc tcactccgc cttcatctg cgcaaaccca cctggttcgt ggtccagcta accatgagcc ccgaggtcca ccagagcaac gtgggtggt gcaggttgg gacagccgccc tacaactact tccatgtgac caactcttc tggatgttcg gcaggggctg ctactgcac acagccatcg tgtcaacta ctccactgac cggctgcgca atggatgtt catctgcatt ggtgggggtg tgccttccc catcatttg gctggggcca ttgggaagct gtactacgac aatgagaagt gctggttttg caaaggcct ggggtgtaca ccgactacat ctaccagggc cccatgatcc tggctctgct gatcaattc gagaccattc tcaacatcgt cgcctccctc atgaccaagc tccgggcac caccagctc gagaccattc atcacatca tgcgttctt cgtcaatccc gccactctgg tgcgtctgccc cctcctgggc atcacatca gctggttctt cgtcaatccc ggggaggatg aggtctccc ggtgctctc atcaactca actcctcct ggaatccctc cagggtctct ttgtgtctgt gtctactgt tctcacta gtgaggtccg tctgcccac cgggaagagt ggcacgggtg gcaggacaag cactcgatcc gtgcccagat ggcctgtgccc atgtccatcc ccacctcccc aacctgtgc agctttcaca gcatcaagca gtccacagca gtctga </p>	Homo sapiens
379	9834	Corticotropic n releasing factor Receptor 1	<p> ttaaaaaatga ataaaaagac atacttctca gctgcaataa ttatggagaa ttggggcacc acaggaatga agagagaaag cagctcccca actcaaaa ctttttgta cctgacaa agagcatttt agagtaatta atttaataa gtaaattagt attgctgcaa atagctaaat tatatttatt tgaattgatg gtaagagat ttccatttt ttctacagac tgttcagtgt ttgtcaagct tctggtctaa tatgtactcg aaagactttc cgttacaaat ttgtagaaac acaaatatcg tttccatac agcagtgcct atatagtac tgaatttaac ttcaaatgtc catctttcaa aggaagtaac accaagtac atagttaaag gaattttcac tttaacctagc agggaaaaat acacaaaaac tgcagatact tcatatagcc cattttaact tgtataaact gtgtgacttg tggcgtctta taaataatgc actgtaaga ttaactgaata gtgtgtgcat gtaaatgtgc ctaatttcat gtatcttgta atcatgattg agcctcagaa tcaattggag aaactatatt ttaagaaca agacatactt caatgtatta tacagataaa gtattacatg tgttgattt taaaagggcg gacattttat ttttctcat cccatgactt cctccgatg gt ggagtctctt tcaagttcat ttttctcat cccatgactt cctccgatg gt MNSTLFSQVE NHSVHSNFSE KNAQLLAFEN DDCHLPLAMI FTLALAYGAV IILGVSGNLA P LIIILKQKE MRNVNIIIV NLSFSDLLVA IMCLPFTFVY TLMDDHWVGE AMCKLNPFVQ CVSITVSIFS LVLI AVERHQ LIINPRGWRP NNRHAYVGIA VIWVLAVASS LPFLIYQVMT DEPFQNVTL D AYKDKYVCFD QFPSDSHRLS YTTLLJLVQY FGPLCFIFIC YFKIYIRLKR RNNMMDKMRD NKYRSSETKR INIMLLSIV AFAVCWLPLT IFNTVFDWNH QIATCNHNL LFLHLTLTAM ISTCVNPIFY GFNLKNFQRD LQFFNFCD F RSRDDDYETI AMSTMHTDVS KTSLLKQASPV AFKKNND D NEKI agccgagcga gcccgaggat gggcgaggc cgcagactcc gtctcgtcaa ggccttctc A cttctggggc tgaaccccg cctgcctcc ctcagagacc agcactgcga gagctgtcc ctggccagca acatctcaga caatggctac cggagtgcc tggccaatgg cagctggcc gcccgcgta attactccga gtgccaggag atctcactg aggaagaaaa aagcaagggtg cactaccatg tcgcagtcac catcaactac ctggggccact gtatctccct ggtggccctc ctggtggcct ttgtctcttt tctgcggtc aggaagcacc cgtgctgcy aaacatcatc cactggaacc tcactccgc cttcatctg cgcaaaccca cctggttcgt ggtccagcta accatgagcc ccgaggtcca ccagagcaac gtgggtggt gcaggttgg gacagccgccc tacaactact tccatgtgac caactcttc tggatgttcg gcaggggctg ctactgcac acagccatcg tgtcaacta ctccactgac cggctgcgca atggatgtt catctgcatt ggtgggggtg tgccttccc catcatttg gctggggcca ttgggaagct gtactacgac aatgagaagt gctggttttg caaaggcct ggggtgtaca ccgactacat ctaccagggc cccatgatcc tggctctgct gatcaattc gagaccattc tcaacatcgt cgcctccctc atgaccaagc tccgggcac caccagctc gagaccattc atcacatca tgcgttctt cgtcaatccc gccactctgg tgcgtctgccc cctcctgggc atcacatca gctggttctt cgtcaatccc ggggaggatg aggtctccc ggtgctctc atcaactca actcctcct ggaatccctc cagggtctct ttgtgtctgt gtctactgt tctcacta gtgaggtccg tctgcccac cgggaagagt ggcacgggtg gcaggacaag cactcgatcc gtgcccagat ggcctgtgccc atgtccatcc ccacctcccc aacctgtgc agctttcaca gcatcaagca gtccacagca gtctga </p>	Homo sapiens

380	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	MGHPLRLV KALLLLGLNP VSASLQDQHC ESLSLASNIS DNGYRECLAN GSWAARVNS P	Homo sapiens
				EQEILNEEK KSKVHYHVAV IINYLGHICIS LVALLVAFVL FLRLRSIRCL RNIIHWNLIS AFILRNATWF VVQLTMSPEV HQSNVWCRL VTAAYNYFHV TNFFWMFEGE CYLHTAIVLT YSTDLRLKWM FICIGWGVPE PIIVAWAIGK LYVDNEKCFW GKRPGVYTDY IYQGPMILVL LNFIFLFLNI VRILMTKLRA STTSETIQYR KAVKATLVL PLLGITYMLF FVNPGEDEV RVVFIYFNSF LESEFQGFVS VFYCFINSEV RSAIRKRWHR WQDKHSIRAR VARAMS IPTS PTRVSEHSIK QSTAV	
381	10457	Frizzled-2	NM_001466	cgagtaaaagt ttgcaaaag ggcggggagg gcgcagccgc agcgaggagg cggcggggaa A gaagcgaggt ctcggggttg ggggcggggg gcgggggggc gcaaggaggc cgggtggggg gcggcgggcca gcattgcggcc ccgcagcgcc ctgcccgcgc tgcgtgctgc gctgctgctg ctgcccgcgc cggggccgcgc ccagttccac ggggagaaagg gcatctccat ccgggaccac ggctctgccc agcccatctc catcccgtg tgcacggaca tgcctacaa ccagaccatc atgcccacc ttctggggcca cagcaaccag gaggacgcag cctagagggt gcaccagttc tatecgctgg tgaaggtgca gtgctgcgc gaactgcgt tcttctgtg ctccatgtac gcacccgtgt gcacgtgtct ggaacaggcc atcccgcgt gcgctctat ctgtgagcgc gcgcgccagg gctgcgaag cctcatgaac agttcgggt ttcagtgccc cgagcgctg cgctgcgagc acttcccgc ccacggcgc gacagatct ggtcggccaa gaaccactcc gaggacggag ctcgcgcgt actcaccac gcgcgcgc gcggactgca gcgggtggcc gggggcaacc cgggtggccc ggcggggcgc ggcgtccc ccgcctacgc cagctggag caccccttc actgcccgc cgtcctcaag gtgccatcct atctcagta caagttctg ggcgagcgtg attgtgctg gcctgcgaa cctgcgcgc ccgatggtc catgttctc tcacaggagg agcgcgttt cgcgcgcctc tggatcctca cctggtcgt gctgtgctg gcttccact tcttactgt caccacgtac ttggtagaca tgcagcgtt ccgtaacca gagcgcccta tcattttct gtcgggctgc tacaccatgg tgtcgggtgc ctacatcgcg ggctcgtgc tccaggagg cgtggtgctg aacgagcgt tctccaggga cggttaccgc acgtggtgct agggcaccaa gaaggagggc tgaccatcc tctcatgat gctctactc tteagcatgg ccagctccat ctggtgggtc atcctgctgc tcaactggt cctggcagcc ggcatgaagt ggggcccacga ggccatcag gccactctc agtacttcca cctggccgc tgggocgtgc cggcgtcaa gaccatcac atcctggcca tggggccagat cgacggcgac ctgctgagcg gcgtgtgctt cgtaggctc aacagcctgg accgctgcg gggcttcgtg ctagcgccgc tctcgtgta cctgttcat ggcagctcct tctcctggc cggcttcgtg tcgctcttc gcacccgcac catcatgaag cagcagggca ccaagaccga aaagctggag cggctcatgg tgcgcatcgg cgttctctc gtgcttaca cagtgcgcgc caccatcgtc atcgttgtct acttctacga gcagccttc cgcgagcact gggagcgtc gtgggtgagc cagcactgca agagcctggc catccgtgc ccggcgcat acacgcgcgc catgtcgcgc gacttcacgg tctacatgat caataacctc atgacgtca tctggtggcat cagctcggc ttctggatct ggtcggggcaa gacgtgcac tctgtgagga agttctaac tgcctcacc aacagccgac acggtgagac caccgtgtga gggacgccc cggcgcgagg cttctctcg ccggggtgg ggccctaca gactccgtat ttattttt taaataaaaa acgatcgaac ccatttact tttaggttgc ttittaaaaa agaactctct ccccaacacc ccc	Homo sapiens

382	10457	Frizzled-2	NP_001457.1	MRPRSALPRL LLPLLLLPAA GPAQFHGEKG ISIPDHGFCQ PISIPCLTDI AYNQTIMPNL P LGHTNQEDAG LEVHQFYPLV KVQSPPELRF FLCSMYAPVC TVLEQAIPPC RSICERARQG CEALMNKFGF QWPERLRCEH FPRHGAEQIC VGQNHSEDA PALITATPPP GLQPGAGGTP GGPGGGAPP RYATLEHPFH CPRVLKVPY LSXKFLGERD CAAPCEPARP DGSMTFFSOEE TRFARLWILT WSVLCCASTF FTVTYLVDM QRERYPERPI IFLSGCYTMV SVAYIAGFVL QERVVCNERF SEDGYRTVVQ GTKKEGCTIL FMYLYFFSMA SIIWVILSL TWFLAAGMKV GHEALEANSQ YFHAAWAVP AVKITITILAM GQIDGDLISG VCFVGLNSLD PLRGFVLAPL FVYLFITGSF LLAGFVSLFR IRTIMKHDTG KTEKLERLMV RIGVFSVLYT VPATIVIACT FYEQAPREHW ERSWVSQCHK SLAIFCPAHY TPRMSPDFTV YMTKYLMTLI VGITSGFWIW SGKTLHSWRK FYTRLTNSRH GETTV	Homo sapiens
383	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNP1IY20)	NM_022571	atggccttac tgggcagcca gcactccggc gccccctccg cggccggccc acctggcggg A acttcctcag cggccacggc ggcctgtgctc tccctcagca cgtggcgac cgcggcgctg gggaacctga gcagcgcaag cggaggcggc acagctgccc ccccggtg cgcggcgctt ggcgggtccc gggaagcggc ggagcggg cggcggtga cggcgccgt aggcccgag ggcgccgcgc tgcgtgcgca cggagctgca gtggcgccc aggcgtcgt cctcctgctc atcttcctgc tgtctagcct tggcaactgc cgcctcctc cctatcggt cctgctcacg cagctccgca ccgtcaccaa cgcctcctc cgtgctgctg cccatcgga tctgctcacg gcgtgctct gccctccgc cgcctcctg gacctcttca ctcgcccgc ggttcggcg cctgcgtgc cgcgggggc cggcggggc ttctgcccga cagccgctt cttcagctcg tgcttcggca tctgtacgc tcagcgtggc gctcatctcg ttgaccgtt actgcgctat cgtcgccgc cgcgggagaa gacggccgc cgcgcgcgc tgcagctgct ggcggcgcc tggtgacgg cctgggctt ctcctgccc tggagctgc tggggcgcc cgggaaactc gcggcgccc agagcttcca cggctgccc tacggacct ccccgacct cgcgacgtg ggcgccctc tcagcgtggg gctgggtggg gctgctacc tctgcccct cctgctcac tgcttctgcc actaccat ctgcaagacg gtgcgctgt cggacgtgc cgtgcggccg gtgaacacct acgcgcgct gctgcgttct tcagcgaggt gcgcacggc accaccgtcc tcatcatga	Homo sapiens
384	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNP1IY20)	NP_072093.1	MALLGSHSG APSAAGPPGG TSSAATAAVL SFSIVATAAL GNLSDASGGG TAAAPGGGGL P GSGAAREAG AAVRRLGPE APLLSHGAA VAAQALVLLL IFLLSSLGNC AVMGVIVKHR QLRTVTNAFI LSLSLDLIT ALLCLPAFL DLTFPPGSA PALPAGPWRG FCRPSRFFSS CFGIVYAQRG AHLVGPLLY RRPPEKIGR RRALQLLAGA WLTAIGFSLP WELLGAPREL AAGQSFHGCL YRTSPDPAQL GGFPSVGLV ACYLLPFLLI CFCHYHICKT VRLSDVVRVP VNTYARVLR SARCAPPSS SS	Homo sapiens
385	14198	Interleukin-8 Receptor B	nm_001557	cattcagaga cagaaggtgg atagacaaat ctcacacttc agactggtag gctcctccag A aagccatcag acagaagat gtgaaatccc ccagcactca tccagaatc actaagtggc acctgtcctg ggccaaagtc ccagacaga cctcatgtt cctctgtggg aatacctccc caggagggca tcttgattt ccccttgca acccaggtca gaagtctcat cgtcaaggtt gttcatctt tttttctctg tctaacagct cctactacca cccaacctg aggcacagtg aagacatcgg tggccactcc aataacagca ggtcacagct gctcttctg aggtgtccta caggtgaaaa gccccgcgac ccagtcagga ttttaagtta cctcaaaaat ggaagatttt	Homo sapiens

aacatggaga gtgacagctt tgaagatttc tggaaaggtg aagatcttag taattacagt
tacagctcta cctgcccc ttttctacta gatgcgcgcc catgtgaacc agaateccctg
gaaatcaaca agtattttgt ggtcattatc tatgccttgc tattcctgct gagcctgctg
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386	14198	Interleukin-8 Receptor B	NP_001548.1	MEDFNMESDS	FEDFWKGEDL	SNYSYSSTLP	PELLDAAPCE	PESLEINKYF	WIIYALVFL	P	Homo sapiens
				LSLLGNLSLV	LVILYSRVGR	SVDVYLLNL	ALADLLFALT	LPIWAASKVN	GWIFGTFLCK		
				VVSILKEVNF	YSGILLIACI	SVDRYLAIVH	ATRTLTKRKY	IVKFICLSIW	GLSLLALPVP		
				LLFRRTVYSS	NVSPACYEDM	GNNTANWRML	LRILPQYSEF	IVPELLIMLFC	YGFTLRLTLFK		
				AHMQQKHRAM	RVIFAVVLIF	LLCWLPYNLV	LLADTLMRTQ	VIQETCERN	HIDRALDATE		
				ILGLHSCIN	PLIYAFIGQK	FRHGLLKILA	IHGLISKDSL	PKDSRPSFVG	SSSGHTSTTL		
387	14641	Calcitonin Receptor	NM_001742		cagaattcca	ggcaaaagag	atcttcaaaa	atcaaaaatg	aggttcacat	ttacaagccg	A
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				tgcatttggc	aggaagatgt	atgctttgaa	tgcaaaaaga	atttagagtc	aatttgctga		

388	14641	Calcitonin Receptor	NP_001733.1	<p> a a c a t t a c a t g c t c a g c t t g g t t t t g g a c a a g c c t g t c c a t t g g g c a g g a c c t a g c t g t t g t a a g a a t g t t g a a t g t a t t t t g g t g c t g a t g t t b a t a a a c t g a g g g t c a c a a a g a a t c t a t c a c t a a a a t t t t t a c a a a a c t g c c a a a a t a t a a t t c t t a g t g g a a g a c a a t a c t c c c t t t a a a g a g a g t t t g c c a c t c c c t a a a c t c c a g g a t t t a t a a a g c a a a t t a c t c c a a g g t t t a t a a a g c a g a t t a c c t t t g c c c t t g g g t g c t a t c t a g c a g t a a a a g a t a a a t t t g t t g a a t a t t g g t a a t a a a g a c t g c c a c a t a a g t c c a t t a a c t g c t t t c c a c c c a g c t t c a a a g c t t a a a a a g a g c t c a g g c t t t c c c a g g a a g a t c c a g g a g g g c t a a t a g a a a t c a a c t t g t g g t t g a c c g c t t g t t c t t g t t a t t a c c a a a c a g g a g g g g a a a a a t t a a c t g c t c c a a t t t a a c c a t a a a t c a a t t c a t g t t t a a c g t t t o t c a t t a a a a t c c a g t a t t a t a t t a t c a t a t c t c t c t t t a c t t c c c a g t a t a a g a t t t t t g a a a a t c c t g a a t a a a c c a g t a t c g t t a c t g g c a c c t g a a a t t a a t t t g t g a a t t t g c a a c a g t a a t c a g a g t t a c c a t t a t t t a a t t t g t a t g c t a a a t g a g g a g g t a c a t t g a a a c c c t c c a a a t c t c c a g t c t c a t c t a t g t c a t a t t t t g c c a c t g c c t t t c a g a a g t g a t t t a g t t g t g g a a a g a t a a t a a a t t g a t t t g t t a t g t t t a c a t a t t t a g c g c a c c c a g a g a a a a t t a a t t a t a t t t c t a c a g a g a a a a t g a a t t t g g g a t a c t a a a a g t a g t t t a a g t c t c c t t t a c t g a a t g t a a g g g g g g g a t c g a a a g a a g g t a t t t t t c c a a t c a c a g t g t t a t g t a g t a t t g t t c t a t t t t t g t t t a c a a a c a t g g a a a a c a g a g t a t t t c t g g c a g c t g t g g t a c a a a t g t g a t a a t a t a t t g c t a a a a t a t t t t a g a t g t t a t t a t g c t a a t a t a g t a g g g g t t g a a g a a a c a a a a a t a g c t t a t t a t a g a a t t g c a c a t a g t t c t g c c c a a a t t a t g t g a a a t g c t t a t g c t t g t g t a t a t g t a t a a a t t a a t a c a g a g t a c g t t t a a a a g c a a a a a g a t g t a t a t t t g c a t a t t t t t c t a a a g a a a t a t a t t a t t c a t c t t t t c a t t c </p>	Homo sapiens
389	16041	C-C Chemokine Receptor 6	NM_004367	<p> c a a a c g t t c c c a a a t c t t c c c a g t c g g c t t g c a g a g a c t c c t t g c t c c c a g g a g a t a a c c A a g a a g c t g c a t e t t a t t g a c a g a t g g t c a t c a c a t t g g t g a g c t g g a g t c a t c a g a t t g t g g g g c c c g g a g t g a g g c t g a a g g g a g t g g a t c a g a g c a c t g c c t g a g a g t c a c c t c t a c t t t c c t g c t a c c g c t g c c t g t g a g c t g a a g g g g c t g a a c c a t a c a c t c c t t t t t c t a c a a c c a g c t t g c a t t t t t t c t g c c c a c a a t g a g c g g g g a a t c a a t g a a t t t c a g c g a t g t t t t c g a c t c c a g t g a a g a t t a t t t t g t g t c a g t c a a t a c t t c a t a t t a c t c a g t t g a t t c t g a g a t g t t a c t g t g e t c c t t g c a g g a g g t c a g g c a g t t c t c c a g g c t a t t t g t a c c g a t t g c c t a c t c c t t g a t e t g t g t c t t t g g c c t c c t g g g g a a t a t t c t g g t g g t g a t c a c c t t t g c t t t t t a t a a g a a g g c c a g g t c t a t g a c a g a c g t c t a t c t c t t g a a c a t g g c c a t t g c a g a c a t c c t c t t t g t t c t t a c t c t c c c a t t c t g g g e a g t g a g t c a t g c c a c t g g t g c g t g g g t t t t c a g c a a t g c c a a g t g c a a g t t g c t a a a a g g c a t c t a t g c c a t c a a c t t t a a c t g c g g g a t g c t g c t c c t g a c t t g c a t t a g c a t g g a c c g g t a c a t c g c c a t t g t a c a g g c g a c t a a g </p>	Homo sapiens

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393	17250	G Protein- Coupled Receptor GPR45	NM_007227	AGDSCRQGAW TLVSNPFCPE PSPPQDFFLP SAPAPVAWAH GRRQGLGPIH SRTNLMDETEL MDADSDF	atggcctgca acagcacgtc ccttgaggct tacacatacc tgctgctgaa caccagcaac A gcttcagact cggggtccac ccagttgccc gcacccctca ggaatctcctt ggccatagtg atgctgctga tgaccgttgt ggggttccctg ggcaacactg tggctctgcat catcgtgtac cagaggccgg ctatgcgtc ggccatcaac ctgctgctgg ccacccctggc cttctccgac atcatgctgt cctctgctg catgcccttc accgcccga cctcatcac cgtgcgctgg cactttgggg accacttctg ccgcctctca gccacgctct actggttttt tgtcctggag ggcgtggcca tcttgctcat catcagcgtg gaccgcttc tcatcatcgt ccagcgccag gacaagctga acccgccag ggccaagggt atcatcgcg tctcctgggt gctgtccttc tgcatcgcg ggcctcgtc cagggctgg acgctggtg agtgccggc gggggcccca cagtgcgtgc tgggtacac ggagctccc gctgacgctg catacgtggt cactttggtg gtggccgtgt tcttgcgcc ctttgcgcc atgctgctg cctacatgtg catcctcaac acggctccga agaacgccg gcgctgac aaccagtcg acagcctgga cctgcggcag ctcaccaggg cgggctgcg gcgctgcag cggcagcaac aggtcagcgt ggaattgagc ttcaagacca aggccttcac caccatcctg atcctcttcg tgggcttctc cctctgctgg ctgccccact ccgtctacag cctcctgtct gtgttagcc agcgtttta ctgcggttcc tcttctacg ccaccagcac ctgcgtcctg tgggtcagtt acctcaagtc cgtcttcaac cccctgctc actgctggag aatcaaaaaa ttccgcgagg cctgcataga gttgctgccc cagaccttc aaatcctccc caaagtgcct gagegatcc gaaggagaat ccagccaagc acagtatacg tgtgcaatga aaacagctct gcggttag QRPAMRSAIN LLLATLAFSD IMLSLCCMPF TAVTLITVRW HFGDHFCLRS ATLYWFFVLE GVAILLIISV DRFLIIVQRQ DKLNPRRAKV ILAVSWLSE CIAGPSLTGW TLVEVPARAP QCVLGYTELP ADRAVVTLV VAVFFAPFGV MLCAYMCIIN TVRKNVAVRH NQSDSLDLRQ LFRAGLRRLQ RQQQVSDLS FKTKAFTTIL ILFVGFSLCW LPHSVYSLLS VFSQRFYCGS SFYATSTCVL WFSYLKSVFN PIVYCWRIKK FREACIELLP QTFQILPKVP ERIRRIQPS TVYVCNENQS AV	Homo sapiens
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395	17345	G Protein- Coupled Receptor D6	NM_001296			Homo sapiens

Homo sapiens

396 17345 G Protein-Coupled Receptor D6 NP_001287.2
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 LSGNLLILMV LRLYVPRRM VEIYLNLAI SNLLFLVTLF FWGISVAWHV VEGSFLCKMV
 STLYTINFYS GIFFISCMSL DKYLEIVHAQ PYHRLRTRAK SILLIATIVWA VSLAVSIPDM
 VFVQTHENPK GVMNCHADFG GHGTWKLFL RFQNLGLFL LPLIAMIFFY SRIGCVLVR
 RPAGQGRALK IAAALVWAF VLWFPYNLTL FLHTLLDLQV FGNCEVSQHL DYALQVTE
 AFLHCCFSPY LYAFSSHRFR QYLKAFIAAV LGWHLAPGTA QASLSSCSES SILTAQEEMT
 GMNDLGERQS ENYPNKEDVG NKSA

Homo sapiens

397 17535 Gaba (b) Receptor 1 NM_001470
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400 17666 Glucagon- NP_002053.1 Homo sapiens
Like Peptide
1 Receptor

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401 18471 G Protein- NM_016372 Homo sapiens
Coupled
Receptor
LOC51210

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289/448

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Homo
sapiens

P

BAA96055.1

G Protein-
Coupled
Receptor
Is21632

21632

408

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Homo
sapiens

A

NM_020400

G Protein-
Coupled
Receptor
GPR92/GPR93

22315

409

410	22315	G Protein- Coupled Receptor GPR92/GPR93	NP_065133.1	MLANSSSTNS SVLPCEPDYRP MCNLAASDLL FTLSLPVRLS AAIVHPLRLR HLRRPRVARL DELWKGRLLP LVLLAEALGF VIFLLCFVPY NSTLAVYGLL AEGFRNTLRG LGTPHRARTS SSFTQCPQDS AL	THRLHLVYS LVLAAGLPLN YYALHWPFP DLICQTTPAI LCLGVWALIL VFAVPAARVH LLPLAAVYS SGRVFWTLAR RSKLVAASVP ARDRVRGVLN ATNGTRAALA QSESAVTITD	ALALWVFLRA LRVHSVSVY FQNMVYGSCI FLMLINVDRY RPSRCRYRDL EVRLCFESFS PDATQSORRR KTVRLLIANL VMVLLAGANC VLDPLVYYS ATRPDAASQG LLRPSDSHSL	Homo sapiens
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 sapiens
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413	25359	G Protein- Coupled Receptor GPR34	NM_005300	<p>YECVPYKVEQ KVFCLPGLLK GYQSEHLFE SDHQSGAWCK DPLQASDKIY YMPWTPYRTD</p> <p>TLTEYSSKDD FIAGRPTTY KLPHRVDGTG FVYDGLAFF NKERTRNIVK FDLRTRIKSG</p> <p>EAIIANANYH DTSPYRWGGK SDIDLAVDEN GLWVIYATEQ NNGKIVISQL NPYTLRIEQT</p> <p>WDTAYDKRSA SNAFMICGIL YVVKSVYEDD DNEATGNKID YIYNTDQSKD SLVDVPFENS</p> <p>YQYIAADVYN PRDNLLYVWN NYHVVKYSLD FGPLDSRSQ AHGQVSYIS PPIHLDSELE</p> <p>RPSVKDISTT GPLGMGSTTT STTLRTTTLT PGRSTTPSVS GRNRSTSTP SPAVEVLDDM</p> <p>TTHLPSASSQ IPALEESCEA VEAREIMWEK TRQGQIAKQP CPAGTIGVST YLCLAPDGIW</p> <p>DPQGPDLNC SSPWNHITQ KLSGETAAN IARELAETR TNVLLQPOA LNAWRDLTTS</p> <p>LLDVQLRNL PGGKDSAAARS LNKLOKRERS CRAYVQAMVE TVNLLQPOA LNAWRDLTTS</p> <p>DQLRAATMLL HTVEESAFVL ADNLLKTDIV RENTDNIKE VARLSTEGNL EDLKFPENMG</p> <p>HGSTIQLSAN TLKQNGRNGE IRVAFVLYNN LGPYLSTENA SMKLGTEALS TNHSVIVNSP</p> <p>VITAAINKEF SNKVYLADPV VFTVKHIKQS EENFNPNCSE WSKYKRTMTG YWSTQGCRLI</p> <p>TINKTHTTCS CNHLTNEAVL MAHVEVKHSD AVHDLILLDI TWVGILLSIV CLLICIFTFC</p> <p>FFRGLQSDRN TIHKNLCISL FVAELLFLIG INRTDQPIAC AVFAALLHFF FLAFTWMFEL</p> <p>EGVQLYIMLV EVFESEHSRR KYFYLVGGM PALIVAVSAA VDYSYGTDK VCWLRLDTYF</p> <p>IWSFIGPATL IIMLVIFLG IALYKMFHT AILKPESGCL DNINYEDNRP FIKSWVIGAI</p> <p>ALLCLLGLTW AFGLMYINES TVIMAYLFTI FNSLQGMFIF IFHCVLQKKV RKEYGKCLRT</p> <p>HCCSGKSTES SIGSGKTSQS RTPGRYSTGS QSRIRRMWMD TVRKQSESS ITGDINSSAS</p> <p>LNREPYRETS MGVKINIAYQ IGASEQCQGY KCHGYSTTEW</p> <p>atgagaagtc ataccataac aatgacgaca acttcagtca gcagctggcc ttactcctcc A</p> <p>cacagaatgc gctttataac caatcatagc gaccaaccgc cacaaaactt ctgagcaaca</p> <p>ccaaatgtta ctacctgtcc catggatgaa aaattgctat ctactgtgtt aaccacatcc</p> <p>tactctgtta ttttcatcgt gggactgggt gggaacataa tcgcccctcta tgtatttctg</p> <p>ggtattcacc gtaaaagaaa ttccattcaa atttatctac ttaacgtagc cattgcagac</p> <p>ctcctactca tcttctgcct cctttccga ataattgtatc atattaacca aaacaagtgg</p> <p>acactaggtg tgattctgtg caaggttggtg ggaacactgt tttatatgaa catgtacatt</p> <p>agcattattt tgcttggtt catcagtttg gatcgctata taaaaattaa tcggtctata</p> <p>cagcaacgga aggcaataac aaccaacaa agtattttatg tctgttgtat agtatggatg</p> <p>cttgctcttg gggattcct aactatgatt attttaacac ttaagaaaag agggcataat</p> <p>tccacaatgt gtttccatta cagagataag cataacgcaa aaggagaagc catttttaac</p> <p>ttcattcttg tggtaattgt ctggctaatt ttcttactaa taatcctttc atatattaag</p> <p>attgggaaga atctattgag gatttctaaa aggaggtcaa aatttcctaa ttctggtaaa</p> <p>tatgccacta cagctcgtaa ctcttttatt gtactttatc tttttactat atgtttttgtt</p> <p>ccctatcatg cctttcgtat catctacatt tcttcacagc taaatgtatc atcttgctac</p> <p>tggaaaagaa ttgttcacaa aaccaatgag atcatgctgg tctctctatc ttccaatagt</p> <p>tgcttagatc cagtcagtga tttcttgatg tccagtaaca ttcgcaaaat aatgtgcaa</p> <p>cttcttttta gacgatttca aggtgaacca agtaggagtg aaagcacttc agaatttaa</p> <p>ccaggatact ccctgcatga tacatctgtg gcagtgaaaa tacagtctag ttctaaaaagt</p> <p>acttga</p>	Homo sapiens
414	25359	G Protein- Coupled	NP_005291.1	<p>MRSHITMTT TSVSSWPYSS HMRFITNHS DQPPQNFSA PNVTTCPMDE KLLSTVLTTTS P</p> <p>YSVIFIVGLV GNIALYVFL GIHRKRNSIQ IYLLNVAIAD LLLIFCLPFR IMYHINQNKW</p>	Homo sapiens

Receptor GPR34	30698	G Protein- Coupled Receptor Ls30698	AX068267	<p>TLGVILCKV GTLFYNNMYI SIILLGFISL DRYIKINRSI QQRKAITTKQ SIYVCCIWM</p> <p>LALGGFLMI ILTLKKGHN STMCIFYRDK HNAKGEALFN FILVMEWLLI FLIIILSYIK</p> <p>IGKNLLRISK RRSKFPNSGK YATTARNSEI VLIIFTICFV PYHAERFIYI SSQLNVSSCY</p> <p>WKEIVHKTNE IMLVLSSFN CLDPVMYFLM SSNIRKIMCQ LLFRRFQGEF SRSESTSEFK</p> <p>PGYSLHDTSV AVKIQSSKS T</p> <p>gtttccagat cggcttctcg caacaggcag tcagtttctca ctgggccccct tggactccca A</p> <p>tttcaaaaat ggagaagaca gatcacagcc actgaccagg gaccgtggga ggtgccacgt</p> <p>gatggtgagg catcatgcta gggagctgag ctctgacctt cctgctgggt gatttccac</p> <p>ctctgggctg ctatgatctac ttcttggtat ccttggaagt cctcatgtat gaaaatgaag</p> <p>tcccaggcaa ccatgatttg ctgcttagtg ttctttctgt ccacagaatg ttcccactat</p> <p>agatccaaga ttcacctaaa aagctatagt gaagtggcca accacatcct cgacacagca</p> <p>gccatttcaa actgggcttt cattcccaac aaaaatgcca gctcggattt gttgcagtca</p> <p>gtgaatttgt ttgccagaca actccacatc cacaataatt ctgagaacat tgtgaatgaa</p> <p>ctcttcattc agacaaaagg gttcacatc aaccataata cctcagagaa aagcctcaat</p> <p>ttctccatga gcatgaacaa taccacagaa gatattctag gaatggtaca gattccccagg</p> <p>caagagctaa ggaagctgtg gccaaatgca tcccaaggca ttagcatagc ttccccaac</p> <p>ttgggggcta tcttgagaga agcccacttg caaaatgtga gtcttcccag acaggtaaat</p> <p>ggtctggtgc tatcagtggt ttaccagaa aggttgcaag aaatcatact cacttcgaa</p> <p>aagatcaata aaaccgcga tgcagagcc cagtgtgttg gctggcactt caagaaaagg</p> <p>agatgggatg agaaagcgtg ccaaatgatg ttggatatca ggaacgaagt gaaatgccgc</p> <p>tgtaactaca ccagtgtggt gatgtctttt tccatttctca gtctctcaa atcgatgacc</p> <p>gacaaagtgc tggactacat cactgcatt gggctcagcg tctcaatcct aagcttgggt</p> <p>ctttgcctga tcaattgaag cacagtgtgg tcccgggtgg ttgtgacgga gatatacat</p> <p>atgcgtcacg tgtgcatcgt gaatatagca gtgtcccttc tgactgcaa tgtgtggttt</p> <p>atcataggct ctcaacttaa cattaaaggc caggactaca acatgtgtgt tgcagtga</p> <p>tttttcagcc actttttcta cctctctctg tttttctgga tgctcttcaa agcattgctc</p> <p>atcattttatg gaattttggt cattttccgt aggatgatga agtcccgaat gatggtcatt</p> <p>ggctttgcca ttggctatgg gtgcccattg atcattgctg tcaactacgt tgctatcaca</p> <p>gagccagaga acggctacat gagacctgag gctgtttggc ttaactggga caataccaaa</p> <p>gcccttttag catttgccat cccggcgttc gtcatgtggg ctgtaaaatct gatgtgggtt</p> <p>ttgggtgttg ctgtcaaac tcagaggccc tctattggca gtccaagtc tcaggatgtg</p> <p>gtcataatta tgaggatcag caaaaatggt gccatcctca ctccactgct gggactgacc</p> <p>tggggttttg gaatagccc tctcatagaa ggcacttctt tgaacttcca tataattttt</p> <p>gccttgctca atgctttcca ggttttttct atctgctgt ttggaacct tatggatcac</p> <p>aagataagag atgctttgag gatgaggatg tcttactga aggggaaatc gagggcagct</p> <p>gagaatgcat cactaggccc aaccaatgga tctaaatgaa tgaatcgtca aggatgaaat</p> <p>gctgccccat ttctcatgga tgtcctgaga ccaagagggg agatccagga gaaagagcc</p> <p>atggaaaagca ggtcggagtg aggaggaaatg gtcatgcttc ctbtggaagac ttctcttct</p> <p>tgtcaggagt gactcccaag ctcttggtcg gcgaagaaa aactgaggat aacatttgc</p> <p>gactgggctt taaggagcat gatttatgga ccccttaacc taccctgccc ctgcaagagg</p> <p>ctggcttctt ggtcaatctt gactagatta agagtcaatc tgcaagccat tttatggtct</p>	Homo sapiens
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416	30698	G Protein- Coupled Receptor Is30698	CAC27252.1	<p>ccctggccag ctgggggctg tagggccctg ctgggcttgg tgcgtcttca ctctgaggc ctgcctctg gctccatagc tcaagtcctc atcactctgc gtggatctcg ggtactttgg acagtggagg ttcgatccaa ttttaggggt aggggtgggg gtggagtggt gagtgtgggt tggcaggagg aagaatgagt ctactttgga gacaataag tcatgtgacg ttcctaaag atagggaacg gaagaaagc aagagaactg ttaataatg tgattatttt agtctatttt agaccttgag taaactaatt tagcttctag gatacaagtt tccctatttg tgaacacgga aaaaaaatt cttgtaggta ttactgtttg tgtgtttgag tttactgeac atgtttgtgt ttgtgtatat gtgtcttcta aaaaactat atataaagaa gattctgggt gttattttag acataaacga atatatgtac ctttcac</p> <p>MKMSQATMI CCLVFFLSTE CSHYRSKIHL KSYSEVANH I LDTAASINWA FIPKNASSD P LIQSVNLFAR QLIHNNSEN IVNELFIQTK GFHINHNTSE KSLNFSMSMN NTTEDILGMV QIPRQELRKL WPNASQAISI AFPTLGAILR EAHQNVSLP RQVNGVLVSV VLPERLQEI I LTFEKINKTR NARAQCVGWH SKKRWDDEKA COMMLDIRNE VKRCNNTSV VMSFSILMSS KSMTDKVL DY ITCIGLSVSI LSLVLCIIIE ATWMSRVVVT EISYMRHVC I VNIASVLLTA NWFIIIGSHF NIKAQDYNMC VAVTFFSHFF YLSLFFWMLF KALLIIYGIL VIFRRMKSR MVIGFAIGY GCPLIIAVTT VAITEPENGY MRPEACWLNW DNTKALLAFA IPAFVIVAVN LIVVLWAVN TQRPISGSSK SQDWIIMRI SKNVAILTPL IGLTWGFGIA TLEGTSLTF HIIFALLNAF QGFFILLFGT IMDHKIRDAL RMRMSSLKKG SRAAENASLG PTNGSKLMNR QG</p>	Homo sapiens
417	30875	G Protein- Coupled Receptor GPR87/GPR95	NM_023915	<p>ggcacgaggg tttcgttttc atgctttacc agaaaaacca cttccctgcc gaccttagtt A tcaaaagcta tttttaatta gagacaagaa acctgtttca acttgaagac accgtatgag gtgaatggac agccagccac cacaatgaaa gaaatacaac caggaaataac ctatgctgaa cccacgcctc aatcgtcccc aagtgtttcc tgacacgcac ctttgcctac agtgcacac aactgaagaa tgggggttcaa cttgacgctt gcaaaattac caaataacga gctgcacggc caagagagtc acaattcagg caacaggagc gacgggccag gaaagaacac caoccttcac aatgaatttg acacaattgt cttgccggtg ctttatctca ttatatattg ggcaagcacc ttgctgaatg gtttagcagt gtggatcttc ttccacatta ggaataaaac cagcttcata ttctatctca aaacatagtt ggttgcagac ctcataatga cgctgacatt tccatttcga atagtcctatg atgcaggatt tggaccttgg tacttcaagt ttattctctg cagatacact tcagttttgt tttatgcaaa catgtatact tccatcgtgt tccctgggct gataagcatt gatcgctatc tgaagggtgt caagccattt ggggactctc ggatgtacag cataaccttc acgaaggttt tatctgtttg tgttgggtg atcatggctg ttttgccttt gccaaacatc atcctgacaa atggtcagcc aacagaggac aatatccatg actgctcaaa acttaaaagt ccttggggg tcaaatggca tacggcagtc acctatgtga acagctgctt gtttgggcc gtgctggta ttctgatcgg atgttacata gocatatcca ggtacatcca caaatccagc aggcaattca taagtcagtc aagccgaaag cgaaaaacata accagagcat cagggttgtt gtggctgtgt tttttacctg ctttctacca tatcacttgt gcagaattcc ttttactttt agtcaacttag acaggctttt agatgaatct gcacaaaaaa tccatatatta ctgcaaaaga attacacttt tctgtctgc gtgtaattgt tgcctggatc caataattta ctttttcacg tgtaggctcat tttcaagaag gctgttcaaa aatacaata tcagaaccag gagtgaagc atcagatcac tgc aaagtgt gagaagatcg gaagtctgca tatattatga ttacactgat</p>	Homo sapiens

418	30875	G Protein- Coupled Receptor GPR87/GPR95	NP_076404.1	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaataa aatgtttctt ttcattatcc ttaaaaaaaa aa MGFNLTIAKL PNNELHGQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILIN P GLAWWIFFHI RNKTSIFIFL KNIWVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV EGLISIDRY LKWKPFPGDS RMYISITFTKV LSVCVWVIMA VLSLPNIILT NQPTEDNIH DCSKLKSPLG VKWHTAVTVV NSCLFVATV ILIGCVIAIS RYIHKSSRQF ISQSSRRKRH NQSIWVAVV FFTCFPLPYHL CRIPFTFSLH DRLLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKKSN ITRSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttccagtcgt ccagcatgct ctgcccaccc caagccgagg tgcactgacc A atgagccctca actcctccct cagctgcagg aagagactga gtaatctcac tgaggaggag ggtggcgaag ggggcgtcat catcacccag ttcatcgcca tcatgtcat caccattttt gtctgcctgg gaaacctggt catcgtggtc acctgtgaca agaagtcta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccaact tcttgggtg cgtgttggtg ctgccttttg tggtagcag ctccatccgc agggaatgga tcttgggtg agtgtggtg aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgccatcg accgtacta tgcgtgctcg taccctatgg tgtaccccat gaagatcaca gggaaccggg ctgtgatggc acttgtctac atctggcttc actogctcat cggctgctg ccacccctgt ttggttggtc atccgtggag ttgacgagt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggcc ttctgggtgc tctgtgtgc cctcttcccc ttcttggtca tgcgtggtg ctatggcttc atcttccgc tggccagggt caagccacgc aaggtgcact gtggcacagt cgtcatcgtg gaggaggatg ctacagaggac cgggaggaaag aactccagca cctccacctc ctcttcaggc agcaggagga atgccttca ggggtgtggtc tactggcca accagtgcga agcctcacc accatcctcg tggctcctcg tgccttcctg gtcacctggg gccctacat ggttgtcatc gctctgagg cctctctggg gaaaagctcc gtctccccga gctggagac ttgggccaca ttgctgtcct ttgccagcgc tgtctgccac ccctgatct atggactctg gaacaagaca gtctgcaaa aactactggg catgtgcttt gggacccggt attatcggga accatttgtg caacgacaga ggaactccag gctcttcagg atttccaaac ggaacacaga cctgggctcg tcccacacc tcactgcgct catggcagggt ggacagcccc tggggcacag cagcagcacg ggggacactg gctcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cactgtcgc gtttccctg tgttgcgttt ccccctgtc gcgtttcccc tgtgcaggct caagagctgg cggaggggca ttccccacgg tg	Homo sapiens
419	31568	G Protein- Coupled Receptor RE2	NM_007369	MSLNSSLSCR KEISNLTEEE GEGGVITQ FIAIIVITF VCLGNLVIV TLYKSYLLT P LSNKFVFSLT LSNFLLSVLV LPFVVTSSIR REWTFGWVC NESALLYLLI SSASMLTLGV IAIDRYAYVL YPMVYPMKIT GNRVWALVY IWLHSLIGCL PPLFGWSSVE FDEFKMMCV A AWHREPGYTA FWQIWCALFP FLVMLVCYGF IFRVARVKAR KVHCGTVIV EEDAQRTGRK NSSTSTSSSG SRNRAFQGV YSANQCKALI TILVVLGAFV VTWGPYMWVI ASEALWGKSS VSPSLETWAT WLSFASAVCH PLIYGLWNTK VRKELGMC FGDYRYREP FV QRQRTSRLFS ISNRTDLGL SPHLTALMAG GQPLGHSSST GDTGFSQSQD SGNLRAL atggacacct cccggctcgg tgtgtcctcg tcttgctcg tgcgtgctga gctggcgacc A gggggcagct ctcccaggct tgggtgtgtg ctgagggggt gccccacaca ctgtcattgc	Homo sapiens
420	31568	G Protein- Coupled Receptor RE2	NP_031395.1	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaataa aatgtttctt ttcattatcc ttaaaaaaaa aa MGFNLTIAKL PNNELHGQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILIN P GLAWWIFFHI RNKTSIFIFL KNIWVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV EGLISIDRY LKWKPFPGDS RMYISITFTKV LSVCVWVIMA VLSLPNIILT NQPTEDNIH DCSKLKSPLG VKWHTAVTVV NSCLFVATV ILIGCVIAIS RYIHKSSRQF ISQSSRRKRH NQSIWVAVV FFTCFPLPYHL CRIPFTFSLH DRLLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKKSN ITRSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttccagtcgt ccagcatgct ctgcccaccc caagccgagg tgcactgacc A atgagccctca actcctccct cagctgcagg aagagactga gtaatctcac tgaggaggag ggtggcgaag ggggcgtcat catcacccag ttcatcgcca tcatgtcat caccattttt gtctgcctgg gaaacctggt catcgtggtc acctgtgaca agaagtcta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccaact tcttgggtg cgtgttggtg ctgccttttg tggtagcag ctccatccgc agggaatgga tcttgggtg agtgtggtg aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgccatcg accgtacta tgcgtgctcg taccctatgg tgtaccccat gaagatcaca gggaaccggg ctgtgatggc acttgtctac atctggcttc actogctcat cggctgctg ccacccctgt ttggttggtc atccgtggag ttgacgagt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggcc ttctgggtgc tctgtgtgc cctcttcccc ttcttggtca tgcgtggtg ctatggcttc atcttccgc tggccagggt caagccacgc aaggtgcact gtggcacagt cgtcatcgtg gaggaggatg ctacagaggac cgggaggaaag aactccagca cctccacctc ctcttcaggc agcaggagga atgccttca ggggtgtggtc tactggcca accagtgcga agcctcacc accatcctcg tggctcctcg tgccttcctg gtcacctggg gccctacat ggttgtcatc gctctgagg cctctctggg gaaaagctcc gtctccccga gctggagac ttgggccaca ttgctgtcct ttgccagcgc tgtctgccac ccctgatct atggactctg gaacaagaca gtctgcaaa aactactggg catgtgcttt gggacccggt attatcggga accatttgtg caacgacaga ggaactccag gctcttcagg atttccaaac ggaacacaga cctgggctcg tcccacacc tcactgcgct catggcagggt ggacagcccc tggggcacag cagcagcacg ggggacactg gctcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cactgtcgc gtttccctg tgttgcgttt ccccctgtc gcgtttcccc tgtgcaggct caagagctgg cggaggggca ttccccacgg tg	Homo sapiens
421	36534	G Protein- Coupled	NM_003667	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaataa aatgtttctt ttcattatcc ttaaaaaaaa aa MGFNLTIAKL PNNELHGQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILIN P GLAWWIFFHI RNKTSIFIFL KNIWVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV EGLISIDRY LKWKPFPGDS RMYISITFTKV LSVCVWVIMA VLSLPNIILT NQPTEDNIH DCSKLKSPLG VKWHTAVTVV NSCLFVATV ILIGCVIAIS RYIHKSSRQF ISQSSRRKRH NQSIWVAVV FFTCFPLPYHL CRIPFTFSLH DRLLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKKSN ITRSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttccagtcgt ccagcatgct ctgcccaccc caagccgagg tgcactgacc A atgagccctca actcctccct cagctgcagg aagagactga gtaatctcac tgaggaggag ggtggcgaag ggggcgtcat catcacccag ttcatcgcca tcatgtcat caccattttt gtctgcctgg gaaacctggt catcgtggtc acctgtgaca agaagtcta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccaact tcttgggtg cgtgttggtg ctgccttttg tggtagcag ctccatccgc agggaatgga tcttgggtg agtgtggtg aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgccatcg accgtacta tgcgtgctcg taccctatgg tgtaccccat gaagatcaca gggaaccggg ctgtgatggc acttgtctac atctggcttc actogctcat cggctgctg ccacccctgt ttggttggtc atccgtggag ttgacgagt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggcc ttctgggtgc tctgtgtgc cctcttcccc ttcttggtca tgcgtggtg ctatggcttc atcttccgc tggccagggt caagccacgc aaggtgcact gtggcacagt cgtcatcgtg gaggaggatg ctacagaggac cgggaggaaag aactccagca cctccacctc ctcttcaggc agcaggagga atgccttca ggggtgtggtc tactggcca accagtgcga agcctcacc accatcctcg tggctcctcg tgccttcctg gtcacctggg gccctacat ggttgtcatc gctctgagg cctctctggg gaaaagctcc gtctccccga gctggagac ttgggccaca ttgctgtcct ttgccagcgc tgtctgccac ccctgatct atggactctg gaacaagaca gtctgcaaa aactactggg catgtgcttt gggacccggt attatcggga accatttgtg caacgacaga ggaactccag gctcttcagg atttccaaac ggaacacaga cctgggctcg tcccacacc tcactgcgct catggcagggt ggacagcccc tggggcacag cagcagcacg ggggacactg gctcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cactgtcgc gtttccctg tgttgcgttt ccccctgtc gcgtttcccc tgtgcaggct caagagctgg cggaggggca ttccccacgg tg	Homo sapiens

Receptor
GPR49

gagcccgagc gaggatgtt gctcagggtg gactgtccg acctggggct ctcgagagctg
ccttccaaac tcaagctctt cactctctac cttagacctca gtagaaca catcagtcag
ctgctccccg atccccctgc cagttctccg ttcctggagg agttacgtct tgcgggaaac
gctctgacat acattcccaa gggagcattc actggccttt acagtcttaa agttcttatg
ctgcagaata atcagctaag acagctaccc acagaagctc tgcagaattt gcgaagcctt
caatccccgc gtctggatgc taaccacatc agctatgtgc ccccaagctg ttctcagtggc
ctgcattccc tgaggcacct gtggctggat gacaatgcgt taacagaaat ccccgctccag
gcttttagaa gtttatcgcc attgcaagcc atgaccttgg cctgaacaa aatacaccac
ataccagact atgcttttgg aaacctctcc agcttggtag ttctacatct ccataacaat
agaaaccact cctgggaaa gaaatgcttt gatgggctcc acagcctaga gactttagat
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atcttgttca atctcactt taaggaggat ctggtgagcc ttgagaagca aacctacgtc
tggacaagat caaacacccc aagcttgatg tcaattaaact ctgatgatgt cgaaaaaacag

422	36534	G Protein- Coupled Receptor GPR49	NP_003658.1	tctgtgact caactcaagc cttggttaacc ttaccagct ccagcatcac ttatgacctg cctcccagtt ccgtgccatc accagcttat ccagtgactg agagctgcca tcttccctct gtggcatttg tcccatgtct ctaa	Homosapiens
				MDTSLRLGLVLL LDPVLLQLAT GGSSPRSGVL LRGCPHCHC EPDGRMLLRV DCSDLGLSEL P PSNLSVFTSY LDLSMNISQ LLPNPLPSLR FLEELRLAGN ALTYIPKGF TGLYSLKVLN LQNNQLRHVP TEALQNLRSI QSLRLDANHI SYVPPSCFSG LHSRLHLWLD DNALTEIPVQ AFRSLALQA MTLALNKIHH IPDYAFGNLS SLVVLHLNHN RIHSLGKKCF DGLHSLLETD LNNNLDEFF TAIRTLNLK ELGFHSNNIR SIPEKAFVGN PSLLTIHFYD NPIQFVGRSA FQHLPELRTL TLNGASQITE FPDITGTANL ESLLTGAQI SSLPQTVCNQ LPNLQVLDLS YNLLEDLPF SVCQKLQKID LRHNEIYEIK VDTFQQLSL RSLNLAWNKI ALIHPNAFST LPSLIKLDLS SNLLSFPIT GLHGLTHLKL TGNHALQSLI SSENFPPELV IEMPYAYQCC AFGVCENAYK ISNQWNKGDN SSMDDLHKKD AGNFQAQDTS DLEDFLLDFE EDLKALHSVQ CSPSPGPEKP CEHLLDGWL I RIGWVTIAVL ALTCNALVTS TVFRSPLYIS PIKLLIGVIA AVNMLTGVS AVLAGVDAFT FGSFARHGAW WENGVGCHVI GFLSIFASES SVFLLTLAAL ERGFVKYSA KPETKAPFS LKVIILLCAL LALTMAAVPL LGGSKYGASP LCLPLPFGEF STMGYMVALI LNSLCFLMM TIAYTKLYCN LDKGDLENIV DCSMVKHIAL LLFTNCILNC PVAFLSFSS IINITFISPEV IKFILLVWP LPACLNPLLY ILFNPHEKED LVSLRKQTYV WTRSKHPSIM SINSDDVEKQ SCDSTQALVT FTSSSITYDL PFSSVPSPAY PVTESCHLSS VAFVPCI	
423	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NM_004736	actagagat gggggcgggc tgctctgaag agacctcgcc ggcggcgagg gagagagaa A gagcagcgc ggcgcgcgc ggggcccatg tggggaggag tggagtgcc tgggtgcgc gccgctgta gctgtcgga ccgagtggga gtgaggggga aacggcagga tgaagtctgc cgagcacctc tccgcgcaca tcaactccga gtggagggaag caatacatcc agtatgaggc tttcaaggat atgctgtatt cagctcagga ccagcacct tctgtggaag ttacagatga ggacacagta aagaggtatt ttgccaaagt tgaagagaag tttttccaaa cctgtgaaaa agaacttgcc aaatcaaca cattttattc agagaagctc gcagaggctc agcgagggtt tgctacactt cagaatgagc ttcaactgac actggatgca cagaaagaaa gcactgggtg tactacgtg cgacaacgca gaaagccagt cttccacttg tcccatgagg aactgttcca acatagaaat attaaagacc ttaaaactggc cttcagtgag ttctacctca gtctaatcct gctgcagaa c taccagaatc tgaattttac aggggtttcga aaaatcctga aaaagcatga caagatcctg gaaacatctc gtggagcaga ttggcgagtg gctcacgtag aggtggcccc attttatata tgcaagaaaa tcaaccagct tatctctgaa actgaggctg tagtgaccaa tgaacttgaa gatggtgaca gacaaaaggc tatgaagcgt ttacgtgtcc cccctttggg agctgctcag cctgcaccag catggactac ttttagagtt ggctatttt gtggaatatt catgtactg aatattaccc ttgtgcttgc cgtgtattt aaacttgaaa cagatagaag tatatggccc ttgataagaa tctatcgggg tggctttctt ctgattgaat tctttttct actgggcac aacacgtatg gtggagaca ggcctggagta aaccatgtac tcatctttga acttaaatccg agaggaatt ttgtctcatca acatctctt gagattgctg gattcctcgg gatattgtgg tgcctgagcc tcttgagcatg cttctttgct ccaattagtg tcatccccc atatgtglat ccaattgccc tttatggatt tatgtgtttc tctcttatca accccaccaa aactttctac tataaatccc gggttttggt gcttaaaactg ctgtttcag tatttacagc	Homosapiens

424	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	<p>ccccctccat aaggtaggct ttgctgattt ctggctggcg gatacgtga acagcctgtc agtgatactg atggacctgg aatatatgat ctgcttctac agtttggagc tcaaatggga tgaagtaag ggcctgttgc caaataattc agaagaatca ggaatttgcc acaaatatac atatggtgtg cgggcccattg ttcagtgcat tccctgttgg cttcgtctca tccagtgccct gcgccgatat cgagacacaa aaaggccctt tccctattca gtaaatgctg gcaagtactc cacaactttc ttcattggtgg cgtttgcagc cctttacagc actcacaaag aacgagggtca ctcggacact atgggtttct tttaacctgtg gattgtcttt tatacatca gttcctgcta tacctcatc tgggatctca agatggactg gggctctctc gataagaatg ctggagagaa cactttccct cgggaagaga ttgtataccc ccaaaaagcc tactactact gtgccataat agaggatgtg attctgcgct ttgcttgac tatccaaatc tccattaccc ctacaacttt gttgccctcat tctggggaca tcaattgtac tgccttggc ccaattgagg ttctccggcg atttgtgtgg aacttctctc gactgtgaga tgaacatctg aataactgtg gtgaattccg tgctgtgcgg gacatctctg tggcccccct gaacgcagat gatacagctc tccatagaaca gatgatggac caggatgatg gggtagcagaa cggccagaag aatcgggtcat ggaagtacaa ccagagacata tccctgcgc cgcctgcct cgttctctca tccaaaggctc gtgacactaa ggtattgata gaagacacag atgatgaagc taacacttga attttctgaa gtctagctta acatcttttg ttttctact ctacaatcct ttctcgcac aacgcaacct ctagtacctt tccagccgaa aacaggagaa aacacataac acatttctcg agctcttccg gatcggatcc tatggactcc aaacaagctc actgtgtttc ttttcttttc ttctgggttta attttaattt tctattttca aaacaagtat ttacttcatt tgcacaatca caaggacata gatacctatc aggatgaaga acatagtatc ttatggattg tttaacaatca ggtactggac tatctcggct tccgctcagc acaggcattg caaggacctc ctgatgggac ggtactgaga tatctcggct tccgctcagc ccggttttga atggttgaaa ccggacattg gtttttaaat tttttgtcag ttatgtgga gaattttttt ctttccctca taccagcgc aaaggcactg gccgcacttg caggaaaaagt gcaacttaaa gcagtacctt cattcatgaa gctacttttt aatttgatgt aacttttctt atbtgggaa ggtgtgctgg gtgggtggga aatatgatgt atttgttaca catagttttc tcattattta tgaaccttaa ccatacagaa tgatataact cctgtgcaat gaagtgata acagtataag aaggcaggag aaaaaaaa</p>	<p>Homo sapiens</p>
				<p>SAQDQAPSVE VTDEDTVKRY FAKFEKFFQ P LQSSLDQKE STGVTTLRQR RKPFVHLSHE LNFTGFRKIL KKHDKILETS RGADWRVAHV PPLGAAQAP AWTFRVGLF IYRGFLLIE FLLGINTY GWRQAGWNHV VIPTVYVPLA LYGFVFFLI LLACFFAPIS NSLSVILMDL EYMICFYSLE FADFWLADQL IQCLRRYRDT KRAFPHLVNA VQCI PAWLRF SSCYTLIWDL KMDWGLFDKN FYLWIVFYII STTLPHSGD IIAVFAPLE FAMTIQISIT LLEQMDQDD GVRNRQKNRS VAPLNADDQ T DDEANT</p>	

425	40881	Lung Seven Transmembran e Receptor 2 (LUSTR2)	AX073578	agagatggca gtgagcgaga ggaggggggt cggcgcgggg agcccccg agtgggggca A gcggctactt ctggtgctgc tgttgggtgg ctgctccggg cgcattccacc ggctggcgct gacgggggag aagcgagcgg acatccagct gaacagcttc ggtttctaca ccaatggctc tctggaggtg gagttagcg tctgcggt gggcctccgg gaggcagaag agaagtcctt gctggtgggg ttacgtctca gccgggttcg gtctgcaga gttcgctctt attcaaccgg ggatttccag gactgcctc tccagaaaaa cagtagcagt ttcttggtcc tgttctctat caacaccaag gatctgcagg tccaggtgcg gaagtatgga gaggcagaaga cgttgtttat ctttcccggt cttctccgg aagcaccctc caaacaggg cttccgaagc cacaggccac agtccccgc aaggtggatg gcggagggac ctctgcagcc agcaagccca agtcaacacc cgagtgatt cagggtccta gtgggaagg caagacctg gtgttggtcc tgagccacct caacaactcc tacaacttca gtttccaggt ggtgatcggc tctcaggcgg aagaaggcca gtacagcctg aacttccaca actgcaacaa ttcatgcca ggaaggaggc atccattcga catcacggtg atgatccggg agaagaacc cgatggcttc ctgtcggcag cggagatgcc cttttcaag ctctacatgg tcatgtccgc ctgtctctct gccgctggca tcttctgggt gtccatcttc tgcaggaa caacagcgt ctctctctct ccacagcact aactactact tcatcaacag ggccttcacc aagagcatct ctctctctct gccctggcgt catgtactac atcgacaccc tgcgaaggg ccaggggccac cccatcgaag gccctggcgt tgcctctgat tggccttca tgaagtacgt cgccctctc ttcatcaca tgcctctgat tgcctcaggc cccgctggca tcaagtacgt ctgtcggat aaggagaaga aggtctttgg gatcgtgagc cccatgcagg tcttggtcaa cgtggcctac atcatcatcg agtcccgga ggaaggcgcc agcactacg tgctgtgaa ggagattttg ttctggtgg acctcatctg ctgtggtgct atctgttcc ccgtagctg gtccatccgg catctccagg atgctctgg cacagacggg aaggtggcag tgaacctggc caagctgaag ctgttccggc attactatgt catggtcact tgctacgtct acttaccctg catcatcgcc atctgctgc agtggtctgt gcccttcag tggcagtgcc tgtaccagct ctbgtggag ggtccacc cgtgctctct tggcctcag ggtcacaagt tccagccac agggaacac cgtacactgc agtgcacca ggagacgag gaggatgttc agatggagca agtaatgacg gactctgggt tccgggaagg cctctccaaa gtcaacaaa cagccagcgg ggggaaactg ttatgatcac ctccacatct cagaccaaag ggtcgtcttc cccagcatt tctcactct gcccttctc cacagcgtat gtggggaggt ggaggggggt catgtggacc aggcgcccg cttcccgga ccccggttc cggacaagcc catttggaag aagagtcctt tctctcccc aaatattgg cagccctgtc ctaccctgg gaccacctt ccttccagc tatgtgtaca ataagacca atctgttgg ct	Homo sapiens
426	40881	Lung Seven Transmembran e Receptor 2 (LUSTR2)	CAC28410.1	MAVSERRGLG RGSPAENGQR LLLVLLGGC SGRHRLALT GEKRAIQLN SFGFTNGSL P EVELSVLRG LREAEEKSL VGSLSRVRS GRVRSYSTRD FDCPLQKNS SSFLVLFLIN TKDLQVVRK YGEQKTLFIF PGLPEAPSK PGLPKQATV PRKVDGGGTS AASKPKSTPA VIQPSGKDK DLVLGLSHLN NSYNFSFHV IGSQAEEGQY SUNFHNCNS VPGKEHPFDI TVMIREKNPD GFLSAAEMPL FKLYMMSAC FLAAGIFWVS ILCRNTYSVF KIHWMALA FTKSISLLFH VINYFINSQ GHPIEGLAVM YYIAHLKGA LFFITIALIG SGWAFIKYVL SDKEKKVFGI VIPNQVLNV AYIIIESREE GASDYLWKE ILFLVDLIC GAILFPVWS IRHLQDASGT DGRVAVNLAK LKLFRRHYVM VICVYFTRI IAILQVAVP FQWQWLYQLL VEGSTLAFFV LTGYKFQPTG NNPLYQLPQE DEEDVQMEQV MTDGFGREGL SKVNKTASGR	Homo sapiens

427	42697	G Protein- Coupled Receptor GPR64	NM_005756	ELL	Homo sapiens
				agccagcccg aggcagcgag cggcagggtgt gcaacagaggt tctccacttt gttttctgaa A	
				ctcgcgggtca ggatgggtttt ctctgtcagg cagtggtggcc atggtggcag aactgaagaa	
				gttttactga cgttcaagat attccttgtc atcatttgc ttcatgtcgt tctggtaaca	
				tccctggaag aagatactga taattccagt ttgtccacc cactgctaa attatctgtt	
				gtcagttttg cccctcctc caatgaggtt gaaacaaca cctcaatga tgttacttta	
				agcttactcc ctccaacga aacagaaaa actaaaaa cttatgtaa aacottcaat	
				gcttcaggcg tcaaacccca gagaatatc tgcaatttgt catctatttg caatgactca	
				gcatttttta gaggtgagat catgtttcaa tatgataaag aaagcactgt tcccagaat	
				caacatataa cgaatggcac cttaactgga gtccctgtct taagtgaatt aaaaagctca	
				gagctcaaca aaacctgca aacctaaagt gagacttact ttataatgtg tgctacagca	
				gagggccaaa gcacattaaa ttgtacattc acaataaaac tgaataaac aatgaatgca	
				tgtgtctgcaa tagccgcttt ggaaagagta aagattcgac caatggaaca ctgtgtctgt	
				tctgtcagga taccctgccc ttctctccca gaagagtgg gaaagcttca gtgtgacctg	
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				tccatcccg tgggtgctcg ggcactgtg ctttccacag tcccacaaag taccctttt	
				gtgtgagctc cagattattc acctgtgacc cacaatgttc cctctccaat aggggagatt	
				caacctctt caccacagc ttcagctccc atagcttcca gcoctgccat tgacatgccc	
				ccacagtctg aaacgatctc ttccctatg cctctccacc atgtctccgg caccacact	
				cctgtgaaag cctcattttc cctctccacc gtgtctgccc ctgtgaaatgt caacaotacc	
				agcgcacctc ctgtccagac agacatctgc aacaccagca gtattttctga tcttgagaac	
				caagtgttc agatggagaa ggtctgttcc ttgggcagcc tggagcctaa cctgcagga	
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				gctcaaatgt tgcgaaagt agtgatgac attggcctac agctgaactt ttcaaacacg	
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				aaccogagcc aggatgagtt aacagtga tgtgtatttt gggacttggg cagaaatggt	
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				tcaattttc tgtcagtgc tctgttaacc tacatagctt ttgaaaagat cggagaggat	
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				ctcctggact cgtggattgc tctgtataag atgcaaggcc tctgcatctc agtggctgta	
				tttcttcat attttctctt ggtctcatt acatggatgg gcctagaagc attccatatg	
				tacctggccc ttgtcaaatg atttaatact tacatccgaa aatcacatct taatttctgc	
				attgtcgggt ggggggtacc agctgtggtt gtgaccatca tctgactat atcccagat	

428	42697	G Protein-Coupled	NP_005747.1	MVF5VRQDGH	PKLSWSWSFA
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atcaacaaca	atgcagtatt	ctacattacg	gtgggtgggat	atttctgtgt	gatatttttg
ctgaacgtca	gcattgttcac	tgtggtcctg	gttcagctct	gtcgaattaa	aaagaagaag
aactgggag	ccagcgaaa	aaccagtatt	caagacctca	ggagtatcgc	tgcccttaca
tttttactgg	gaataaacttg	ggcctttgcc	ttctttgctt	ggggaccagt	taacgtgacc
ttcatgtatc	tgtttgccat	ctttaatacc	ttacaaggat	tttctatatt	catctttttac
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gtaaaccaag	gagtgtccag	ctcttcaaat	tccttacagt	caagcagtaa	ctccactaac
tcaccacac	tgctagttaa	taatgattgc	tcagttaacg	caagcgggaa	tggaaatgct
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ttcactggaa	aacagacacat	gtttaacgag	aaggaagatt	ctctgaatgg	gaaaggccgt
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ctttcttcta	aaatcaaaag	atgatgcttg	acagttgtaa	atgttccaat	ttacctttta
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tcaagaataa	atgatccacg	ccagactgag	aaatgtlaag	cacagatgtc	cacagtttag
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gggaactgtc	ctacactgct	attgttgcta	catgtatcga	gcttggattg	ctcttagtta
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ttattaggaa	catttcaaac	cccttttagt	taagtctttc	actaaagttc	tcttgcatat
atttcaagtg	aatgttggat	ctcagactaa	ccatagtaat	atacacatt	tctgtgagtg
ctgacttgtc	tttgcaatat	tctctttctg	atttatttaa	ttttcttgta	tttatatgtt
aaaaatcaaaa	atgtttaaaat	caatgaaata	aattgcagt	taaga	
mvf5vrqcdh	vgrteevllt	fkiflvicl	hvlvltsl	ee	dtmnsllspp
pssnevett	lndvtllslp	snetektkit	ivktnasgv	kpqnicnls	stcndsafftr

Accession	Protein	Accession
429	KIAA1624	AF376725

GEINFOYDK	STVPQNHIT	NGTLTGVL	SELKRSELNK	TLQTLSETYF	IMCATAEAQS
ITLNLCTFTIKL	NTNMNACA	AALERVKIRP	MEHCCCSVRI	PCPSSPEELG	KLQCDLQDPI
WCLADHAPRGS	PFSSQSPV	VPRATLMSQV	PKATSFAPPP	DYSPVTHNVP	SPVNETQPLS
QQQSADPIASS	PAIDMPQOSE	TRISSMEQTH	VSGTPEPVKA	QFSSRLHSP	ANWNTTSAPP
VPQTSIAVNTSS	ISDLNQVL	TEKALSIGSL	ENPLAGEMIN	QVSRLLHSP	DMLAPLAQRL
KLKVDDDIGLO	LNFSNTTISL	TSPSLALAVI	RVNASSFNTT	TFVAQDPANL	QVSLETOAPE
NSISGTTITLPS	SIMNNLPAHD	MELASRVQFN	FEETPALFQD	PSLENLSLIS	YVSISSVANL
VTVNRLTRNVT	VTLKHINPSQ	DELT'VRQVFW	DLGRNGGRGG	WSDNGCSVKD	RRLNETICTC
SHSLTSFGVLL	DLRSRTSVLPA	QMMALTFITY	IGCGLISSIFL	SVTLVTVIAF	EKIRRDYPSK
LLILILQLCAALL	LLNLVFLDGS	WIALYXNQGL	CISVAVELHY	FLLSVFTWMG	LEAFHMYLAL
WVKVFNCTYIRK	YILKEFICLVG	GVPAVVVVTII	LITSPDNVGL	QSKYKTFPNS	PDDFCWINNN
RAVFYITVVG	FCVFIILNV	MFIVVLVQIC	LRKKKKQLGA	GRYKTSIQDLR	SIAGLTFELLG
ITWGSFAFFAW	GVNVNTEFMYL	FAIFNTLQGF	FIFIFYCVAK	ENVRKQWRRY	LCCGKLRLAE
NNSDMWSKATN	GLKKQTVNQG	VSSSSNSLQS	SSNSTNSTTL	LVNNDCSVHA	SGNGNASTER
NGVSVFSVQNG	DVCLHDFTGK	QHMFENERDS	CNGKGRMALR	RTSKRGSLHF	IEQM
gaacaaacat	ggcgcgtctg	gcgcgcgtcg	gctccccgc	ctccccgcgt	cctaggctgg
ccgcgcggcct	ccgctgctct	ccaatgctgg	gttgctgca	gttctgtgcc	gagcctggcc
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agaagtgctaa	agaaagctaa	gtggattcaa	aggccatggg	agagaaatcc	tttctgttct
gataataatgg	tggggcagtg	ctatttcagt	tttctttaa	catcagcact	gatgaccaag
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ttacattcag	ccttgatat	gagatcacag	agaagaatcc	tgacagctac	ctctcagcac
gagaaatttc	ttctcccaaa	ttatacatct	caatggcctt	tttctcttt	ctttctggga
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gcttgtggaa	ggactctcta	tttctggctg	acctgttgtg	ttgtgggtgc	atcctcttcc
cagtggtgtg	gtcaatcaga	catttaccaag	aagcatcagc	aacagatgga	aaagctgcta
ttaaacttagc	aaagctgaaa	ctttctcaga	attattacgt	cttgatttgt	tgttacatat
ctctacatag	gacattgca	tttctcctca	aactgcgtgt	tccattccag	tgggaagtgc
tctaccagct	ctctggatgaa	acggccacac	tggtcttctt	tgttctaacy	gggtataaat
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430	45937	KIAA1624 Protein	AAK57695	<p> ttgagtgccgt tgtgacaaca tctgggggtga tggaaagtat gaagaaagtc aagaaggtga ccaacggctc cgtggagccc caggcgaggt gggaaggcgc cgtgtgacag agccgacccct gaggatggca ctgtccaagg aaactgttaa gctattcata gtcctattgg acagcaggag cagctcctac agtgaactat tggcaccacc gacagtaca ccagggcaca tggctggagc acagtccgc ggaacacctga ttttgtactc tcttttatgg aaacgatctg tggctgttta gaggcagctg gatacctctt caggcgaggaa tgggagggcg ggcacaggga ggagagagag aagagaaaag gaagaattca ttttaattt aggttctctt ttttctctt cattcggag ctctaagggt tatgcagttg tgaccccatg tgtggggaag ttagcaagg acggctgggtg gagggggaag gaggtgctga ggtgtctgtc tgatgcttta ggaatgtctt actgaggacc ctgggactta agaagaagg cggggagagt gccattgcct gtttgggaga caaaaatgaa cgaaaaacag tgactttgga aagcaaatg aaaaaccagt ttaggatga gcacctgcc caggattcct gccctcggt ttgccccaga ccttatttcc agatgctgag agtgaccagg acagcagctc ctgagggcca gtggtcttct ttccaacagg aaaagaaggc tgtgatgtcg ctgtcaggat catgccctgt ggcacagcac aggtggtggg aggtgggttt ctgactgaga tgttgctga tggatgaaa gaaatgtatt ttaagtcca aaagcatta tccgtggcg ttgctggac atccactccc tgacagccca gacgacact gctggcttc ccttcactgt tgtggctttg ttgtgtttga tcagaatttt gggggaaatg gaaagttttc ctcaaggagc agctgggggc agaataagta gtatttaagc aaatacttaa gtccaagcaa atcatccca ttaaaaagct tttcctgtag gctagttaga aaaaaaaaa aaaaaa MAALAPVGSP ASRGPRLAG LRLPLMLGLL QLLAEPGLGR VHHLALKDDV RHKVLHNTFG P FFKDGYMVVN VSSLNLNEPE DKDVTIGFSL DRPNKDFSS YLDEDVNYCI LKKQSVSVTL LILDISRSEV RVKSPPEAGT QLPKLIIFSRD EKVLGQSQEP NVNPASAGNQ TQKTQDGGKS KRSTVDSKAM GEKSFSVHNN GGAVSFQFFF NISTDDQEG LYSLYFHKCLG KELPSDKFTF SLDIETERN PDSYLSAGEI PLPKLYISMA FPFELSGLTIW IHILRRNRND VFKIHLMAA LPFTKSLSLV FHAIYHYIS SQGFPIEGWA VVYIYTHLLK GALLFITIAL IGTWAFIKH ILSDKDKKIF MIVIPLOVLA NVAYIIIEST EESTTEYGLW KDSLFLVDLL CCGALLFPVV WSIRHLQEAS ATDCKAJNL AKLKLFRHY VLVICYIYFT RIIAFLKLA VPFQWKWLYQ LLDETATLVF FVLTYGKFRP ASDNPYLQLS QEEEDLEMS VVTSGVMS MKKVKKVTNG SVEFQGEWEG AV </p>	Homo sapiens
431	50847	Neurotensin Receptor type 2	NM_012344	<p> gagt-gagagg gagggagcgc cggccgcggg agcgggatgg aaaccagcag cccgcggccc A ccggggccca gctccaaccc ggggctgagc ctggacgccc ggctgggctg ggacactcgc ctctggggcca aggtgctgtt caccgcgtc tacgactca tctgggctg gggcgcgcg ggaatgcgc tgcctgtgca cgtggtgctg aaggcgcggg ccggcgcgccg gggcgcgccg cgccaccacg tgcctagcct ggctgcgcg ggcctgctgc tgcctgctgt cggcgctgcg gtgagctct acagcttctg gtggttccac taccctggg tcttcggcga cctgggctgc cgggctact acttcgtgca cagctgtgc gctacgcca cgggtgctgag cgtggcaggc ctgagcgccg agecgtgctt agcgtgtgc cagccctgc gtgcccgag cctgctgacg ccacggccga ccgggtggct ggtggcgctc tctggggcgc cctgcctcgc cctgcctcgc cccatggccg tcatcatggg gcagaagcac gactcgaga ggcgggacgg ggagccggag cccgcctcgc gagtgtgac ggtgctgggt agccgaccc cgtcccaagt ctttatccag gtgaatgtgc tgggtctctt cgtgctcccc ttggcactaa ctgcttctct gaatggggc </p>	Homo sapiens

432	50847	Neurotensin Receptor type 2	NP_036476.1	<p>acagtgaacc acctgtctggc cctctgtctc caagtgcctg cactttctac cccgggcagc</p> <p>tccaccccca gccgcctgga gctgtctagt gaggagggtc tcttcagctt catcgtatgg</p> <p>aagaagacct ttatccaggg aggccaggtc agcctgggtg gacataaaga cgtgcgcggg</p> <p>atccgcagcc tccagcgag cgtccagggt ctccagagcca tctgtgtcat gtatgtcatc</p> <p>tgctggctgc cgtaccatgc ccgaggctc atgtactatg acgtacatga tgacgcgtgg</p> <p>actgacccac tgtacaattt ctaccactac ttctacatgg tgaccaaac acttttctac</p> <p>gtcagctcag ctgtgactcc tcttctctac aacgccgtgt cctcctcctt cagaaaaactc</p> <p>ttcctggaag ccgtcagctc cctgtgtgga gaggaccacc coataaagcg gttaccccg</p> <p>aagccccaga gtccaccct aatggataca gcttcaggct ttggggatcc cccagaaacc</p> <p>cggacctgaa tghtaatgcaa gaatgaacag aacaagcaaa atgaccagct gcttagtcac</p> <p>ctggcaaaagc aggtgagcaa cctcatcact aatcattcaa gcttcgcagc caggcgact</p> <p>tctatcaaac cctgctctgc tgagaacctat caagcgacag gaagccacgt gacccctcct</p> <p>agcctcagc tccctcgtct gtgtagtgga gataaagaac agcaccatc tcttagtgtt</p> <p>gcctgagact aaagtgtcta gcacagaacc tgggtcgtag tagatgctca ataaattttt</p> <p>gctggcacg</p>	Homo sapiens
433	53440	G Protein- Coupled Receptor LS53440	AX107037	<p>PSSNPGLSLD ARLGVDTRLW AKVLFALYA LIWALGAAGN ALSVHVVLKA P</p> <p>RAGRAGRLRH HVLISLALAGL LLLLVGPVE LYSFWFHYF WVFGLGCRG YFVHELCAV</p> <p>ATVLSVAGLS AERCIAVCQP LRARSLTPR RFRMLVALSW AASLGIALPM AVIMGQKHSL</p> <p>ETADGEPEPA SRVTVLVR TALQVFIQVN VLVSVFLPLA LTAFLNGTVV SHLLALCSQV</p> <p>PSTSTPGSST PSRLLELSEE GLLSFIWKK TFIQGGQVSL VRHKDVRIR SLQRSVQVLR</p> <p>AIIVMVVICW LPYHARRLMY CYVEDDAWTD PLNFIHYFY MVTNLFYVS SAVTPLLYNA</p> <p>VSSSRKLFL EAVSLCGEH HPMKRLPPKP QSPILMDTAS GFQDPPETRI</p> <p>cagagaggct gtatttcagt gcagcctgcc agacctcttc tggaggaga cttggacaaa A</p> <p>ggggtcacac attcctcca taectgttag tcccaatggc aatgaatcca cctgtgtctg gtccacagttc</p> <p>agcttcttca tgatgggtga tcccaatggc aatgaatcca cctgtgtctg gtccacagttc</p> <p>ataggcctcc ctgggttaga agaggtcag tctgtgttgg ccttccatt gtgtccctc</p> <p>tacctattg ctgtgttag taacttgaca atcatctaca ttgtgcggac tgagcacagc</p> <p>ctgcctgagc ccatgtatat atttcttgc atgtcttcag gcattgacat cctcatctcc</p> <p>acctcatcca tgcacaaat gcctggccatc ttctgttcca attccactac catccagttt</p> <p>gatgttgc tgctacagat ttttggccatc cactccttat ctggcatgga atccacagtg</p> <p>ctgctggcca tggcttttga ccgctatgtg gccatctgtc accactgcg ccattgccaca</p> <p>gtactacgt tgcctgtgt caccaaaatt ggtgtggctg cttgtgtgctg gggggctgca</p> <p>ctgatggcac ccttctctgt cttcatcaag cagctgcctt ctgtgcgctc caatctcctt</p> <p>tcccatcct actgcctaca ccaagatgic atgaagctgg cctgtgatga tatccgggtc</p> <p>aatgtgtct atggccttat cgtcatcctc tccgctatgg gccctggactc actctctac</p> <p>tccttctcat atctgtttat tcttaagact gtgtgtggct tgacacgtga agccaggcc</p> <p>aaggcatttg gcacttgct ctctcatgtg tgtgtgtgtg tcatattcta tgtacctttc</p> <p>attggattgt ccattgtgca tgcctttagc aagcggcgtg actctccgt gccgtctac</p> <p>ttggccaata tctatctgt ggttctctt gtgtctcaacc caattgtcta tggagtgaag</p> <p>acaaaggaga ttgcacagcg catctctga ctttccatg tggccacaca cgcttcagag</p> <p>ccctagggtg cagtatcaa acttcttttc cattcagagt cctctgattc agattttaat</p>	Homo sapiens

434	53440	G Protein- Coupled Receptor LS53440	CAC38935.1	<p>gtaacattt tggagacag tattcagaaa aaaaatttcc ttaataaaaa atacaactca gatccttcaa atatgaaact ggttggggaa tctccatttt ttcaatatta ttttcttctt tgttttcttg ctacatataa ttattaatac cctgactagg ttgtggttgg aggtttatta cttttcattt taccatgcag tccaaatcta aactgcttct actgatggtt tacagcattc tgagataaga atggttacatc tagagaacat ttgccaaagg cctaagcacg gcaagggaaa ataaacacag aatataataa atgagataa tctagcttaa aactataact tctcttctag aactcccaac cacattggat ctacagaaaa tgctgtcttc aaaaatgact ctacagagaa gaataaattt ttctctgga cactagcact taagggaag attggaagta aagccttgaa aagagtacat ttacctacgt taatgaaagt tgacacactg tctgagagt ttacacagca tatggaccct gtttttctta ttaattttc ttatcaacce ttaattagg caaagatat attagtagcc tcattgtagc catgggaaaa ttgatgttca gtggggatca gtgaattaaa tggtgacata caagtataaa aattaaaaa aaaaagact tcatgcccc tctcatatga tgtggaagaa ctgttagaga gaccaacagg gtatgggtt agagatttcc agagtcttac atttctaga ggaggtattt aattcttct cactcatcca gtgtgtgatt taggaatttc ctggcaacag aactcatggt ttaaatccca ctatgtattg cttattgtcc tgggtccaatt gccaattacc tgtgtcttgg aagaagtgt tctaggttc accattatgg aagatttctta ttcagaaaagt ctgcataagg cttatagcaa gttatttatt tttaaaagt ccataggtga tcttgatagg cagtgaaggt agggagccac cagttatgt ggaagatga gaatggcagg tttgaagat aacattggcc ttttgagtgt gactcgtagc tggaaagtga ggaatcttcc aggaccatgc tttatttggg gctttgtgca gtatggaaca ggaactttga gaccaggaaa gcaactgac ttaggcatgg gaatcaggca tttttgcttc tgaggggcta ttaccaaggg ttaataggtt tcactctcaa caggatatga caacagtgtt aaccaagaaa ctcaaatctac aaatactaaa acatgtgac atatatgtgg taagtctcat tttctttttc aatcctcagg ttccctgata tggattccta taacatgctt tcatccctt ttgtaatgga tatcatattt ggaatggctt atttaatact tgtatttgc tctggactgt aagcccatga gggcactgtt tattattgaa tgtcatctct gttcatcatt gactgctctt tgtcatcat tgaatccccc agcaaatgac ctagaacata atagtctta tgcctgacac cgtttatttt tcatcaaaac tgattccttc tgtcctgaac acatagccag gcaattttcc agccttctt gacttgggta ttatbaaatt ctggccatta ctccaatgt gagtgggaagt gacatgtgca attctatatac ctggctcata aaacctccc atgtgcagcc tttcatgttg acattaaatg tgacttggga agctatgtgt tacacagagt aaatcaccag aagcctggat ttctgaaaaa actgtgcaga gccaaacctc tgtcatttgc aactccact tgtatttga cgaggcagtt ggataagtga aaaaataagt actatttgt caagaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaa</p> <p>MMVDNNGNES SATYFILIGL PGLERQFWL AFPLGSLYLI AVLGNLTIIY IVTFEKLHE P PMYIFLCMLS GIDILISTSS MPKMLAIFWF NSTTIQFDAC LLOMFALHSL SGMESTVLLA MAFDRYVAIC HPLRHATVLT LPRVTIKGVA AVVRGAALMA PLPVFIKQLP FCRSNILSHS YCLHQDVMKL ACDDIRNVW YGLIVISAI GLDSLISFS YLLILKTVLG LTRQAQAKAF GTCVSHCAV FIFYVPFIGL SMVHRFSKRR DSPLPVILAN IYLLVPPVLN PIVYGVKTKE IRQRIURLFH VATHASEP</p>	Homo sapiens
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435	54053	Gaba (b) Receptor 2	NM_005458	Homo sapiens
				A
				atggcttccc cgcgagggtc cgggcagcca gggcgccgc cgccgcgcgc accgcgcgc
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				ggctggggc gggcgcccc ccggcgccc cccagcagc gccgccttc catcatggc
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				gtggaactgg ccactgagca gatccgaac gactgactcc tgcgcccta ctctctgac
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				ataaaatag ggcgaacca ctgatgggt tttggagggt tctgtccatc cgtcacatcc
				atcattgcag agtccctcca aggtggaat ctggtgcgc ttcttttg tgaaccaag
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				cgtgcctcc ggaagaatct gctgtgtgcc atggagggt acattggcgt ggatttcgag
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				gagtacaaca acaagcgtc aggcgtgggg ccacgcaagt tccacgggtc cgctacgat
				ggcatctggg tcatcgccaa gacactgcag agggccatgg agacactgca tgcacagc
				cggcaccagc ggatccagga cttcaactac acggaccaca cgttgggcag gatcatcctc
				aatgccatga acgagacca cttcttcggg gtacacgggtc agtttgtatt ccggaatggg
				gagagaatgg ggaccattaa atttactcaa tttaagaca gcaggagggt gaaggtggga
				gagtaacaac cgttgccga cacactggag atcatcaatg acaccatcag gtccaagga
				tcggaaccac caaaagaca gaccatcatc ctggagcagc tgcggaagat ctccctacct
				ctctacagca tctctctgc cctcaccatc ctcggtatga tcatggccag tgcctttctc
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				aaccttatca tccctggagg gatgctctcc tatgcttcca tatttctct tggccttgat
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				accgtgggct acacgaccgc ttctggggcc atgtttgcaa agacctggag agtccacgcc
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				atccgccttc tccctggagca ctgtgagaa cccatatga ccatctggct tggcatctcc
				tatgcctaca agggacttct catgttgttc ggtgtttct tagcttggga gaccgcaac
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				cagttcactc agaatcagaa gaaagaagt tctaaacgt ccacctcgt caccagtgtg
				aaccaagcca gcacatccc cctggagggc ctacagtcag aaaaacctc cctgcgaatg
				aagatcacag agctggataa agacttggaa gaggtcacca tgcagctgca ggacacacca

436	54053	Gaba(b) Receptor 2	NP_005449.1	ctgttaa	gaaaagacca cctacattaa acagaaccac taccaagagc tcaatgacat cctcaacctg ggaaacttca ctgagagcac agatggagga aaggccattt taaaaaatca cctcgatcaa aatccccagc tacagtggaa cacaacagag cctctcga catgcaaaaga tcctatagaa gatataaact ctccagaaca catccagcgt cggctgtccc tccagctccc catcctccac cacgcttacc tccatccat cggagcgctg gacgcagctg gtgtcagccc ctgctgcagc cccaccgcca gcccccgcca cagacatgtg ccaccctect tccgagtcac ggtctcgggc	Homo sapiens
437	55728	ETL protein	NM_022159	ctgttaa	gaaaagacca cctacattaa acagaaccac taccaagagc tcaatgacat cctcaacctg ggaaacttca ctgagagcac agatggagga aaggccattt taaaaaatca cctcgatcaa aatccccagc tacagtggaa cacaacagag cctctcga catgcaaaaga tcctatagaa gatataaact ctccagaaca catccagcgt cggctgtccc tccagctccc catcctccac cacgcttacc tccatccat cggagcgctg gacgcagctg gtgtcagccc ctgctgcagc cccaccgcca gcccccgcca cagacatgtg ccaccctect tccgagtcac ggtctcgggc	Homo sapiens

438	55728	ETL protein	NP_071442.1	<p>aaagattata atattcttac aaggatcact caactaggaa taattatttc actgatttgt cttgccatat gcaattttac cttctgttc ttcaagtgaac ttcaagcac caggacaaca attcacaaaa atctttgtcg tagcctattt cttgctgaac ttgtttttct tgttgggac aatacaaaata ctaataagct cttctgttca atcattgccg gactgctaca ctacttcttt ttagctgctt ttgcatggat gtgcattgaa ggcatatcat tctatctcat tctaaagccca gtcatctaca acaagggtt ttgacacaag aatttttata tctttggcta tctaaagccca gccgtggtag ttggattttc ggacgaccta ggatacagat attatggcac aaccaaagta tgttggctta gcaccgaaaa caactttatt tggagtttta taggaccagc atgcctaate attcttggta atctcttggc ttttggagtc atcatataca agttttttctg tcacactgca gggttgaaac cagaagtttag ttgcttttag aacataaggt cttgtgcaag aggagccctc gctcttctgt tcttctcgg caccacctgg atctttgggg ttctccatgt tgtgacgca tcagtggta cagcttacct cttcacagtc agcaatgctt tccaggggat gttcattttt ttattcctgt gtgttttatc tagaaagatt caagaagaat attacagatt gttcaaaaaa gtccctgtt gtttggatg ttttaaggtaa acatagagaa tgggtggataa ttacaactgc acaaaaataa aaattccaag ctgtggatga ccaatgtata aaaatgactc atcaaatat ccaattatta actactagac aaaaagtatt ttaaatcagt ttttctgttt atgtatatgg aactgtagat aataaggtaa aattatgtat catatagata tactatgttt ttctatgtga aatagtctg tcaaaaaatag tattgcagat atttggaaag taattgggtt ctgaggagtg atatcactgc acccaaggaa agattttctt tctaacacga gaagtatatg aatgtcctga aggaaaccac tggcttgata ttctgtgac tgggttgcc ttgaaacta gtcccttacc acctcggtaa tgagctccat tacagaaagt ggaacataag agaatagaag ggcagaatat caacagtgta aaagggatg ataagatga ttttgaatga actgtttttt ctgtagacta gtgagaaat tgtgacata aaataaagaa ttgaagaaac acattttacc attttgtgaa ttgttctgaa cttaaatgtc cactaaaaa acttagactt ctgtttgcta aatctgtttc tttttctaatt attctaaaa</p>	Homo sapiens
439	56923	Muscarinic acetylcholine Receptor M3	NM_000740	<p>atgaccttgc acaataacag tacaacctcg ccttgtttc caaacatcag ctctctctgg A atacacagcc cctcagatgc aggtgtgcc cgggaacccg tcaatcattt cgcagactac aatgtttctc gageagctgg caatttctcc tctccagacg gtaccaccga tgacctctcg ggaggtcata cagctctggca agtgtcttc ategtttct taacgggcat cctggccttg gtgaccatca tggcaacat cctggttaatt gtgtcattta aggtcaacaa gcagctgaag CFGCLR</p>	Homo sapiens

440	56923	Muscarinic acetylcholin e Receptor M3	NP_000731.1	<p>acgggtcaaca actacttccct cttaagcctg gctgtgccc atctgattat cgggggtcatt tcaatgaatc tgtttacgac ctacatcac atgaatcgat gggccttagg gaacttggcc tgtgacctct ggcttgccat tgactacgta gccagcaatg cctctgttat gaatcttctg gtcatcagct ttgacagata cttttccatc acgaggccgc tcaagtaccg agccaaacga acacaaaga gagccgtgtg gatgatcgtt ctggcttggg tcaatctctt tgtcctttgg gtctctgcca tctgttctg gcaatacttt gttggaaga gaactgtgcc tccgggagag tgcttcattc agttctctcag tgagcccacc attacttttg gcacagccat cgctgctttt tatatgcctg tcaccattat gactatttta tactggagga tctataagga aactgaaaag cgtaccaaaag agcttgcttg cctgcaagcc tctgggacag aggcagagac agaaaacttt gtcaccccca cgggcagttc togaagctgc agcagttacg aacttcaaca gcaagcagatg aaacgctcca acaggaggaa gtatggccgc tggcacttct ggttcacaac caagagctgg aaaccagct ccgagcagat ggaccaagac cacagcagca gtgacagttg gaacaacaat gatgtgctg cctccttgga gaactccgcc tctccgacg aggaggacat tggctccgag acgagagcca tctactccat cgtgtcctcaag ctccgggtc acagcaccat cctcaactcc accaagttac cctcatcgga caactgcag gtgctgagg aggagctggg gatggtggac ttggagagga aagccgacaa gtgagggcc cagaagagcg tggacgatgg aggcagtttt ccaaaaagct tctccaagct tcccatccag ctgaggtcag ccgtggacac agctaagact tctgacgtca actcctcagt gggtaaagac acggccactc tacctctgc ctcaaggaa gccactctgg ccaagaggtt tgccttgaag accagaagtc agatcactaa ggggaaaaag atgtccctgg tcaaggagaa gaaagcgccc cagaccctca gtgcgatctt gcttgcccttc atcatcactt ggaccccata caacatcagt gttctgttga acaccttttg tgacagctgc ataccaaaaa ccttttggaa tctgggtac tggctgtgct acatcaacag caccgtgaac cccggtgct atgctctgtg caaaaaaca ttcagaacca ctttcaagat gctgctgctg tgccagtggt acaaaaaaaa gagcgcaag cagcagttacc agcagagaca gtcggtcatt tttcaaacgc gcgcacccga gcaggccttg tag</p>	Homo sapiens
441	57180	Leukotriene B4 Receptor BLTR2	NM_019839	<p>MTLHNNSTTS PLFPNISSW IHSFSDAGLP PGVTHFGSY NVSRAGNFS SPDGTTDDPL P GGHTVWQVVF IAFITGILAL VTIIIGNILVI VSEKVNKQLK TVNNYFLLSL ACADLIIGVI SMNLFTYII MNRWALGNLA CDLWLAIIDYV ASNASVMNLL VISFDYFESI TRPLTYRAKR TTKRAGVMIG LAWVISFVLW APAILFWQYF VGKRTVPPGE CFIQFLSEPT ITFGTAIAAF YMPVTIMTIL YWRIYKETEK RTKELAGLQA SGTEAETENF VHPTGSSRSC SSYELOQQSM KRSNRRKYGR CHFWFYTKSW KPSSEQMDQD HSSSDSWNNN DAAASLENSA SDEEDIGSE TRAIYSIVLK LPGHSTILNS TKLPSSDNIQ VPEEIGMVD LERKADKLQA QKSVDGGSF PKSFSLPIQ LESAVDTAKT SDVNSVSGKS TATPLSFKE IAKRPFALK TRSQITKRKR MSLVKEKAA QTLSAILLAF IITWTPYNIM VLVNTEFCDSC IPKTFWNILGY WLCYNINSTVN PVCYALCNKT FRTTFKMLLL CQCDKKRRK QYQQRQSVI FHKRAPEQAL gaaactggcc ctggccctga accaaatacc ttgaacctc gtaactcca taccctgacc A cccttgcttt ggataaccc aggtagaaca actctctctc actgtctgtt gtgaggatac gctgtagccc actcataag tacattctcc taataaatgc ttgtagctga tcacctgccc agtcttttgt cttgggcaat ctatacttt ctcagaggtt cccaaggcct actgaaggga cttaacatac tcttaatggc ttctctctct ctgtgtttac cttatgacct cactctctga gttaacctcc caaatacagg atcacctgta cccaaggcct tagctcaaga atacaggatc</p>	Homo sapiens

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442	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	MAPSHRASQV GFCPTPERPL WRLPPTCRPR RMSVCYRPPG NETLLSWKTS RATGTAFLLL P AALLGLPENG FVWWSLAGWR PARGRPLAT IVLHLALADG AVLLLTPLFV AFLTROAWPL GQAGCKAVYY VICALSMYASV LITGLLSLQR CLAVTRPFLA PRLRSPALAR RLLAVWLAA ILLAVPAAY RHLMRDVCO ICHPSPVHAA ARLSLETLFA FVLPFGLMLG CYSVTIARLR GARWGSGRHG ARVGRLVSAI VLAFLGLWAP YHAVNLLQAV AALAPPEGAL AKLGAGQAA RAGTTALAFF SSSVNPVLYV FTAGDLLPRA GPRFLTRLFE GSGEARGGGR SREGTMELRT TPQLKVGQG RGNQDPGGEM EKDGPEWDL	Homo sapiens
443	73584	Cadherin EGF LAG Seven- Pass G-Type Receptor 1 (CELSR1/Flam ingo)	NM_014246	atggcgccgc cgccgcgcgc cgtgctgccc gtgctgctgc tcttgccgc cgccgcgcgc A ctgcccggcga tggggctgctg agcgccgcgc tgggagccgc gcgtaccgcg cgggaccgcg gccttcgcgc tccggcccgct ctgtacctac gcggtgggcg ccgcttgccac gccccgggcg ccgcgggagc tgcctggacgt gggccgcgct gggcggtgctg caggacgtcg gcgctctcg ggcgcggggc gcccgctgccc gctgcaagtc gcttggtggtg ccgcagtgcc cccgacggcg ctgagccgcg gcctgcgggc gcgcacgcac ctccccggtc gcggagcccg tggccggctc tgccgaaccg gtgcccggct ctgcccgggc cctgcttccc ccgtcccccg cggctgcgcg gccgcgcagc attcggcgct cgcagctccc accaccttac ccgctgcgc ctgcccgcg cgccccagcc ccgctgctcc cggcgccgct gcctccgcgc tgcctccc cctgcgcgcg ctgctgctgc tgtgcccct gcggcgccgc gctggcgccg tccgggtggg actggcgctg gaggccgcga ccgcggggac gccctccgcg gcctccgcgc cctgcgcgcg cctgcgcgcg aacttgcccg agccccgggc gggggccggc cgcagggccc ggcgggggac ggcgggcga ggagacctga agttccgct gcccaactac cagggtggcgt tgtttgagaa cgaaccggcg ggcaccctca tctccagct gcacgcgcac tacaccatgc agggcgagga ggagcgctg agctattaca tggaggggct gttcgacgag cgtccccggg gctacttccc aatcgactct gccacgggcg ccgtgagcac ggacagcgtg ctggaccgcg agaccaagga gacgcacgtc ctcagggtga aagccgtgga ctacagtacg ccgcccgcgt cggccaccac ctacatcact gtcttggtca aagacaccaa cgaccacagc ccggtcttcg agcagtcgga gtaccgcgag cgctgctggg agaaccctgga gctgggctac gagggtgctga ccatccgcgc cagcgaccgc gactcgccca tcaacgccaa ctgctgttac cgcgtgttgg gggcgcgctg gacgtcttc cagctcaacg agagctctgg cgtggtgagc acacggggcg tgcctggacc cccgctcagt gccaggtacc agctcctggt ggaggccaa cgcaggggc gcaatccggg cccgctcagt gccacggcca ccgtgtacat cgaagtgagg gacgagaaacg acaactacc ccagttcagc gagcagaact acgtggtcca gttgcccag gacgtgggc tcaacacggc tgtgctcga gtgcaggcca cggaccggga ccagggccag aacgggccca ttcactacag catcctcagc gggaacgtgg ccggccagtt ctacctgac tgcctgagc ggaactgga tgtgatcaac cccttgatt tcgaggatgt ccagaaatc tgcctgagc ttaaggccca ggaagggggc cggccccgc tcatcaatc ttcagggggtg gttctgtgc aggtgctgga tgtcaacgac aacgagccta tctttgtgag cagcccttc caggccacg tgcctggagaa tgtgccccctg ggctaccccc tgggtgcacat tcaggcggtg gacgggact ctggagagaa cggccggctg cactatcgcc tgggtggacac ggcctccacc ttctctgggg gcggcagcgc tgggacctaa aatcctgccc ccaccctga ctcccttc cagatccaca acagctccg ttggatcaca gtgtgtgccc agctggaccg cgaagggtg gacactaca ccttcggggg ggaggcggtg gaccacggct cggccccat gagctcctcc accagcgtgt ccatcacggt gctggacgtg	Homo sapiens

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AEYQLLVEAN DQGRNPGPLS ATATYVIEVE DENDNYPQFS EQNYVQVPE DVLNTAVLR

444 73584 Cadherin EGF NP_055061.1 MAPPPPVLV PRELIDVGRD VLLLLAAA LPANGLRAA WERNVPGTR AFALRPGCTY AVGAACTPRA P Homo sapiens
LAG Seven-
Pass G-Type
Receptor 1
(CELSRI/Flam
ingo)

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 HYRLVDTAST FLGGGSAGPK NPAPTDFPF QIHNSSGWIT VCAELDREEV EHYSGVEAV
 DHGSPPMSSS TSVSITVLVD NNDPVTQTP TYELRLNEDA AVGSSVLTLQ ARDRDANSVI
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445	74514	5-HT5A Receptor	NM_024012	<p>LTEQTLKGRL REKLADCEQS PTSSRTSSLG SGGPDCAITV KSPGREPGRD HLNQVAMNVR</p> <p>TGSAQADGSD SEKP</p> <p>atggattttac cagtgaaacct aacctctttt tccctctcca cccctctccc ttggagagacc A</p> <p>aaccacagcc tcggcaaaaga cgacctgcgc ccagctgcgc ccctgctctc ggtcttcgga</p> <p>gtgcttattc tcaccttgct gggctttctg gtgcggcga cgttcgctg gaacctgctg</p> <p>gtgctggcga ccacctctcg tgaacgcacc ttcccccacc tgcctccaaa cctggtggca</p> <p>tcctatggccg tctcgatgt cctggtggcc cgcctggcca tgcctgctgag cctggtgcat</p> <p>gagctgtccg ggcgcgcgtg gcagctaggt cggagcgtg gccagctttg gatcgctgc</p> <p>gacgtgcttt gctgcacggc cagcatctgg aacgtgacgg ccatagacct ggaccgctac</p> <p>tggtccatca cgcgccacat ggaataacag ctccgcacc gcaagtgcgt ctccaacgtc</p> <p>atgategcgc tcacctgggc actctcgcgt gtcactctc tggcccgct gctttttggc</p> <p>tggggagaga cgtactctga gggcagcgag gactgccag taagccgcga gccttccctac</p> <p>gccgtgttct ccacctgagg cgccttctac ctgcgcctct gtgtggtgct ctctggttac</p> <p>tggaagatct acaaggctgc caagttccgc gtgggctcca ggaagaccaa tagcgtctca</p> <p>cccatatccg aagctgtgga ggtgaaggac tctgccaaac agccccagat ggtgttcacg</p> <p>gtccgcacg ccacctgcac ctccagcca gaaggggaca cgtggcgga gcagaaggag</p> <p>cagcggggcg cctcatggt gggcatcttc attggcgtgt tctgtctctg ctggatcccc</p> <p>ttctttctca ccgagctcat cagtccttc tctctcttg acatccccg catctggaaa</p> <p>agcatcttc tgtggttgg ctactccaac tcttctttt acccctgat ctatacgct</p> <p>ttcaacaaga actacaacag cgccttcaag aacttcttt ctaggcaaca ctga</p>	Homo sapiens
446	74514	5-HT5A Receptor	NP_076917.1	<p>MDLPVNLTSF SLSTPSLET NHSLGKDDL RPSPLLSVFG VLITLLGL VAATFAWNL P</p> <p>VLATILVRT FHRVPHNLVA SMAVSDVLA ALVPLSLVH ELSGRRWQLG RRLCQLWIAC</p> <p>DVLCCTASIW NVTALDRI WSITRMEYT LTRKCVSNV MIALTWALSA VISIAPLLFG</p> <p>WGETYSEGE ECQVSREPSY AVFSTVGAFY LPLCWLFVY WKIYKAKEP VGSRTNSVS</p> <p>PISEAVEVKD SAKQPMVFT VRHATVTFQ EGDWREKE QRAALMVGIL IGVFVLCWIP</p> <p>FFTELISPL CSCDIPAIWK SIFLWLGYSN SFFNPLIYTA FNKNYNSAFK NFFSRQH</p> <p>gtaatgcaga gataataaaa ctctcttaggt ccataagctt tataataatt taataaccta A</p> <p>aacatggtat acaaatctct ccaaacccaa taacataatt atagtttcaa aaagtctccc</p> <p>aaactttcaa gtagatttt attgcttga tgaaggctt taaatatga agtcttgc</p> <p>tgtgaaggcg aatccttttc ccgtggactg ggatctatag aaatacagaa atgtgccccag</p> <p>gggttcattc cctaataac catcattcac atttctcaac ctccctaata accagccacc</p> <p>atgtgagaag gatccacagt tactgtttat gactataatt aactagtacc tgggactggt</p> <p>cagtgaggtt ggttgcaacc tgaatgaag gatgtcaag ttgtctcgc ctctgttccc</p> <p>agccagtaag taattccctg gcctcgggcc ataccctca ctcttggtca gctgattatg</p> <p>acaggcagac agcacagtaa ataacactat atattaagaa aacccaaagc atatgtatca</p> <p>atggtatatata ccaacagca tctaggaat ggagagctg tagcaaggcg ctccaatgtg</p> <p>aaggtcaaca cagtcactgt gatgcgtgta ttccatttt gtaaacatg atctctggtg</p> <p>gtcattttta tcttctaac ttattggaaa agtctcctgt ttggggggcc cgccccctggt</p> <p>cacagccaga ctgactcagt ttccctggga ggtccccgct gagccccgtc ttccccctcc</p> <p>tctgccccgc ccagccctc gcccacccct cggcgccccg acatctgct gctcagctcc</p> <p>agacggcgcc cggacccccg ggcgcgggat ccagccaggt gggagccccg cagatgaggt</p>	Homo sapiens
447	81765	Thromboxane A2 Receptor	NM_001060		Homo sapiens

448	81765	Thromboxane A2 Receptor	NP_001051.1	<p> ctctgaaggt gtgcctgaac cagtgccagc ctgcccctgtc tgcagcatcg gcctgatggg gtggtgactg atccctcagg gctccggagc catgtgcccc aacggcagtt cccctggggcc ctgtttcccg ccacaaaaca ttaccctgga ggagagacgg ctgategcct cgccctgggt cgccgcctcc ttctgcgtgg tgggcctggc ctccaaacctg ctggccctga gcgtgctggc ggcgccggcg cagggggggt cgacacggcg ctccctcttc ctacacctcc tctgcggcct cgctctcacc gacttctctgg ggctgctggt gaccggtaac atcgtgggtg cccagcacgc cgcgctcttc gagtggcacg ccgtggaccc tggctgccc ctctgtcgtc tcatgggctg cgctcatgac ttcttcggcc tgtccccgct gctgctgggg gcggccatgg cctcagagcg ctactgggt atcaccggcg ccttctcgcg ccggcggtgc gctcgcagc gccgcgctg ggccaccgtg gggtggtgt gggcgccgc gctggcgctg ggctgctgc cccctgctgg cgtgggtcgc tacaccgtgc aataccggcg gtccctggtc ttccctgacgc tggcgccga gtccggggac gtggccttcg ggtgctctt ctccatgctg ggcgccctct cggctcggct gtccttctctg ctgaacacgg tcagcgtggc caccctgtgc cagctctacc acgggcagga ggcgccccag cagcgtcccc gggactccga ggtggagatg atggctcagc tccctgggat catggtggtg gccagcgtgt gttggtgctg ccttctggtc ttcatgtccc agacagtgt gegaaacccg cctggccatga gcccgccgg gcagctgtcc cgcaccacgg agaaggagct gctcatctac ttgcgcgtgg ccacctggaa ccagatcctg gaccctggg tgtatatacct gttcgcgcg gcgtgctcc ggcgtctcca gctcgccctc agcaccggcg ccaggtcgt gtccctccag cccagctca cgcagcgtc cgggctgac taggaagtgg acagagcgcc cctcccgcg ctttcggcg agccttggc cctcctgaca gccatctgc ctgttctctgag gattcagggg ctgggggtgc tggatggaca gggggcatca gcagcagggt ttgggttga cccaatcca accgggggac cccaaactcc tccctgatcc tttaaccaag cactctccct tccctggccc ctttttccca tccagagctc ccaccccttc tctgcgtccc tcccaacccc aggaaggcca tgcagacatt ggaagagggt cttgcattgc tattttttt tttagacgga gtcttgctct gtcccccagg ctggagtga caccacacct gggcgcaat ctgagctcac tgcaacctcc acctcccggt tcaagcgtat tctcctgct cagctcctg agtagctggg actataggcg cgcgccacca cgcccgcta attttggat tttagtaga gacggggttt caccgtgttg gccaggctgg tcttgaactc ctgacctcag gtgattcacc agcctcagc tcccaaatg ctgggatcac aggcataaac caccacacct ggcattttt tttttttt tagacggagt ctcactctgt gcccagcct ggagtacagt ggcacgatct cggctcactg caacctccgc ctcccggtt caagcgattc tctgacctca gcctcccgag cagctgggat tacaggcgta agccactgcg ccggccttg catgctctt gacctgaat ttgacctact tgcctggggtg cagtgcttc ctttgaacc tccaacaggg aaggtctgt ccaaaaaa gttgaatgta aacgggggca ccccttttc ttgcaaaa atactctgc ctttggttt at </p>	<p> Homo sapiens P GARQGGSHTR VMIFFGLSPL VGRYTVQYPG AAQRPRDSE LIYLRVATWN GLQ </p>
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449	98519	Chemokine (C motif) Receptor 1 (CCXCR1)	Chemokine (C motif) Receptor 1 (CCXCR1)	atggagtcct caggcaacc agagagcacc acctttttt actatgacct tcagagccag	actatgacct tcagagccag	Homo sapiens
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				gtgtttctcc tcagcctagt gggcaacagc ctggctcctg ggttcctggt gaagtatgag	ggttcctggt gaagtatgag	
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				gttctccggc agttctggtt ctgcccggctg caggcaccca gccacgcctc gatccccac	gccacgcctc gatccccac	
				tcacctgggt ccttcgccta tgaggcgcc tctcttact ga	tctcttact ga	
450	98519	Chemokine (C motif) Receptor 1 (CCXCR1)	Chemokine (C motif) Receptor 1 (CCXCR1)	MESSGNPEST TFYYDLQSQ PCENQAWVFA TLATVLYCL VFLLSLVGNS	TLATVLYCL VFLLSLVGNS	Homo sapiens
				SLSELTNIFI LNLCLSDLVF ACLLPWVISP YHWGWLGDLS LCKLLNMIFS	ISLYSSIFFL	
				TMTHIRYLS VVSPSLTRV PTLRCRVLT MAVVASILS SILDITFHKV	LSSGCDYSEL	
				TWYITSVYQH NLFELSLGI ILFCYVEILR TLFRRSRKR HRTVKLIFAI	VWAYFLSWGPF	
				YNFTLFLOTL FRQIIRSC AKQOLEYALL ICRNLAFSHC CENPVLYFV	GVKFRTHLKH	
				VLRQFWFCRL QAPSPASIPH SPGAFAYEGA SFY		
451	130108	G Protein-Coupled Receptor 75	G Protein-Coupled Receptor 75	gcgatggcga tgaatgcctc agtctgcat catccagagc ggcagggcag ctgggggtccg	ggcagggcag ctgggggtccg	Homo sapiens
				gactgcgaga tgaggagagg gcgcgtgctg gcacccggca ggttatctg tcttgggcct	ggttatctg tcttgggcct	
				ctttgtcac atattgtca tctgtgagct gagggcctga ctcactgagt attttggggg	ctcactgagt attttggggg	
				agcagaagaa ggagacattt ctctccgaaa atgaactcaa caggccacct tcaggatgcc	caggccacct tcaggatgcc	
				cccaatgcca cctcgctcca tggcctcac tcacaggaag gaacacagcac cctctctccag	gaacacagcac cctctctccag	
				gagggtcttc aggatctcat ccacacagcc accctgggta cctgtacttt tctactggcg	cctgtacttt tctactggcg	
				gtcatcttct gctgggttc ctatggcaac ttcattgtct tcttgcctt cttcgatcca	tcttgcctt cttcgatcca	
				gccttcagga aattcagaac caactttgat ttcattgatcc tgaacctgtc cttctgtgac	tgaacctgtc cttctgtgac	
				ctcttcattt gtggagtgc agcccccatg ttacaccttg tgttattctt cagctcagcc	tgttattctt cagctcagcc	
				agtagtatcc cggatgctt ctgcttcaat ttcattctca caggttcagg cttcatcatc	caggttcagg cttcatcatc	
				atgtctctga agacagtgc agtgatgcc ctgcacggc tccggatggt gttggggaaa	tccggatggt gttggggaaa	
				cagcctaata gcacggcctc ctttccctgc accgtactcc tcacctgtct tctctgggcc	tcacctgtct tctctgggcc	
				accagtttca ccttgccac cttgggtacc ttgaaaacca gcaagtccca cctctgtctt	gcaagtccca cctctgtctt	
				cccatgtcca gtctgattgc tggaaaaggg aaagccattt tgcctctcta tgtggtcgac	aaagccattt tgcctctcta	
				ttcaccttct gtgttctgtt ggtctctgtc tcttaccatca tgaattgtca gacctgcgg	tgaattgtca gacctgcgg	
				aagaacgctc aagtcagaaa tggccccctt gtaatcacag tcatgtcttc cagaccacag	tcatgtcttc cagaccacag	
				cctttcatgg ggttccctgt gcaggagggt gtagatccca tccagtgctc catgccggct	tccagtgctc catgccggct	
				ctgtatagga accagaatta caacaaactg cagcacgttc agacccgttg atataccaag	cagcacgttc agacccgttg	

452	130108 G Protein- Coupled Receptor GPR75	NP_006785.1	<p> agtcccaacc aactgggtcac cctgcagca agccgactcc agctcgtatc agccatcaac ctctccactg ccaaggattc caaagccgtg gtcacactgtg tgatcattgt gctgtcagtc ctgggtgtgt gttctccact ggggatttcc ttgggtacagg tgggttctctc cagcaatggg agcttcattc ttaccacagt tgaattgttt ggatttactc ttatatattt caagtcagga ttaaaccttt ttatatattc tgggaacagt gcagggtcga gaaggaaagt gctctgggtc ctccaataca taggctggg ttttttctgc tgcaaacaaa agactcgact tcgagccatg ggaaaaggga acctcgaagt caacagaaac aaatctctcc atcatgaaac aaactctgcc tacatgttat ctccaagcc acagaagaa tttgtggacc aggtctgtgg cccaagtcat tcaaaaagaa gtatggtgag tcccaagatc tctgctggac atcaacactg tggtcagagc agctcgacc ccatcaaac tcggattgaa ccttactaca gcatctataa cagcagccct tcccaggagg agagcagccc atgtaactta cagccagtaa actcttttg atttgccaat tcatatattg ccatgcatta tcacaccact aatgacttag tgcaggaata tgacagcact tcagccaagc agattccagt cccctccgtt taaagtcatg gaggtatag gatcttatgt aaacagtitt tgtttctgat agtaatggac tttattctaa cttagatca gtggcggatc aaaacctaca agattcaact gaaaagtgg cagttatggt tttctttcat ctgatgtgtc agtatctgtt gatttgcttt gtagttgtt gacatcttaa gatttgatgt gaaagtttta gattttttac cctg </p>	Homo sapiens
453	133117 G Protein- Coupled Receptor RAIG1	NM_003979	<p> MNSTGHLQDA PNATSLHVP SHQENSTSLQ EGLQDLIHTA TLVTCTFLA VIFCLGSYGN P FIVELSFDDA APRKRTNFD FMILNLSFCD LFICGVTAPM FTFVLEFFSA SSIPDAFCFT FHLTSSGFII MSUKTVAVIA LHLRMVLGK QPNRTASFCP TVLLTLLWA TSFTLATLAT LKTSKSHLCL PMSLSIAGKG KALLSLYVD FTFCAVAVSV SYIMIAQTLR KNAQVRKCPP VITVDASRPQ PEMGVVQGG GDFIQCAMPA LYRNQYNKL QHVQTRGYTK SPNQLVTPAA SRLQLVSAIN LSTAKDSKAV VTCVIIVLSV LVCCPLGIS LVQVVLSSNG SFILYQFELF GFTLIFFKSG LNPEIYSRNS AGLRRKVLWC LQYIGLGFCC CKQKTRLRAM GKGNLEVRN KSSHETNSA YMLSPKPQKK FVDAQGSPSH SKESMVSPKI SAGHQHCGQS SSTPINTRIE PYYSIYNSSP SQEESPNCNL QPVNSFGFAN SYIAMHYHTT NDLVQEYDST SAKQIPVPSV ataacagcat gaagtgcctt ggaactggaa taggcgtgtc ctctccctcg accctcccc A tccttgctcc tctgctcacc cctcgctcgt tccctccctc cggcagaggc cgcctttata acaactgctc agagtgcgag ggcgggatag ctgtccaagg tctccccag cactgaggag ctgcctgtct gccctcttgc gcgcgggaag cagcaccaag ttcaacggcca acgccttggc actagggtcc agaattgcta caacagtcctc tgatggttc cgaatggcc tgaatccaa gtactacaga ctttgtgata aggtgaagc ttgggggcac gtctagaaa cgggtggccac agccgggggt gtgacctcgg tggccttcac tctcactctc cagatccctg tctgcaagg gcaggactcc aacaggcga aaatgctgcc tactcagttt ctcttctcc tgggtgtgtt gggcatcttt ggcctcacct tgccttcac catcggactg gacgggagca caggggccac acgcttcttc ctcttggga tctcttttc catctgtctc tctgctctg tggctcatgc tgtcagttctg accaagctcg tccgggggag gaagccctt tccctgttgg tgattctggg tctggccgtg ggcttcagcc tagtcagga tgttatcgct attgaatata ttgtcctgac catgaatagg accaactca atgtcttttc tgagcttctc gctcctctgc gaaatgaaga ctttgtcttc ctgtcacct acgtctctt cttagtgagg ctagccttcc tcatgtcttc cttcaccttc tgtggttctt tcacgggctg gaagagacat gggggccaca tctacctcac </p>	Homo sapiens

454	133117	G Protein- Coupled Receptor RAIG1	NP_003970.1	gatgctctc tccattgcca tctgggtggc ctggatcacc ctgctcatgc ttctgacttt tgaccgagc tgggatgaca ccatcctcag ctccgecttg gctgccaatg gctgggtgtt cctgttggtc tatgttagtc ccgagttttg gctgctcaca aagcaacgaa accccatgga ttatcctgtt gaggatgctt tctgtaaac tcaactcgtg aagaagagct atggtgtgga gaacagagcc tactctcaag aggaatacac tcaaggtttt gaagagacag gggacacgct ctatgcccc tattocacac atttccagct gaagaaccag cctcccaaaa aggaattctc catcccaagg gccacagctt ggcgagccc ttacaaagc tatgaagtaa agaaagagg cagtaaacct tgcctgaag agtgggacaa atgcagccgg gcggcagatc tagcgggagc tcaaagggat gtggcgaaa tcttgagctc tctgagaaa ctgtacaaga cactacggga acagtttgcc tccctccag cctcaaccac aattcttcca tgcctgggct gatgtggct agtaagactc cagttcttag aggcgctga gtattttttt gaccttact ctttttgtt atacttctt taagtgggag tctcaggcaa ctaagtta gaccttact ctttttgtt gtttttgaa acaggatctt gctctgtcac ccaggcttga gtgcagtgtt gcgatacacg cccagtgac cctcgaccac ctgtgctcaa gcaatcctcc catctccatc tcccaagtg ctgggatgac aggggtgagc cacagctccc agcctaggcc cttaatcttg ctgttatatt ccatggacta aaggtctggt catctgagct cagctggct cacacagctc taggggctg ctctctaac tcacagtggg tttgtgagg cctgtggcc cagagcagac ctgcatactc gagcaaaaat agcaaaagcc tctctcagc cactggcctg aatctacact ggaagccaac ttgtggcac cccgctccc caaccttct tgcctgggta ggagaggcta aagatcacc taaatctact catctctca gtgctgctc acattggcc tcagcagctc cccagacca attcacaggt caccctctc ttcttgact gtcccaaac ttgctgtcaa ttcagagatc taatctccc ctacgctctg ccaggaattc tttagacct cactagcaca agccgggtg ctcctgtca ggagaatttg tagatcattc tcaattcaa ttctggggc tgatacttct ctcatcttg acccaacct ctgtaaatag atttaccgca ttacggctg cattctgtaa gtggcatgg tctcctaag gagagtggt catgtataa taagtattc acctgagtat gcaataaaga tgtggtggcc accttctcat ggtggtggca gcaaaaaa aaaaa RRKMLPTQFL FLGLVIGIFG LTFALIGLD GSTGTRFFL FGILFSICFS CLLAHAVSLT KLVRGRKPLS LLVILGLAVG FSLVQDVIAI EYIVLTMRV NVNVSLSA PRNEDFVLL LTYVLFMAL TFLMSSTFC GSFTGWKRHG AHIVLTMLLS IAIWAWITL LMLPDFDRRW DDTILSSALA ANGVFLLAY VSPEFWLTK QRNPMDYPVE DAFCKPQLVK KSYGVENRAY SQEETQGF ETDNLVAPY STHFQIQNP PQKEFSIPRA HAWSPYKDY EVKKEGS atggggacct gtgacattgt gactgaagcc aatatctcat ctggccctga gagcaacacc acgggcatca cagctctctc catgcccagc tggcagctgg cactgtggc accagcttac ctggccctgg tgcctgtggc cgtgacgggt atgcgcatcg tcatctggat catcctggcc catcgaggga tgcgcacagt caccactac ttcactgtca atctggcgt ggctgacctc tgcatggctg ccttcaatgc cgcctcaac tttgtctatg ccagccacaa catctggtac tttgccctg ccttctgcta ctccagaac ctctcccca tcaagccat gttgtcagc atctactcca tgaccgcat tgcctgcgac aggtacatgg ccactgtcca ccccttccag cctcgcttt cagctccag caccaggcg gttatgtctg gcatctggt ggtggctctc gcctggcct cccctcagtg cttctactcc accgtcacca tggaccaggg tggcaccagg	Homo sapiens
455	152198	Tachykinin Receptor 2	NM_001057	atggggacct gtgacattgt gactgaagcc aatatctcat ctggccctga gagcaacacc acgggcatca cagctctctc catgcccagc tggcagctgg cactgtggc accagcttac ctggccctgg tgcctgtggc cgtgacgggt atgcgcatcg tcatctggat catcctggcc catcgaggga tgcgcacagt caccactac ttcactgtca atctggcgt ggctgacctc tgcatggctg ccttcaatgc cgcctcaac tttgtctatg ccagccacaa catctggtac tttgccctg ccttctgcta ctccagaac ctctcccca tcaagccat gttgtcagc atctactcca tgaccgcat tgcctgcgac aggtacatgg ccactgtcca ccccttccag cctcgcttt cagctccag caccaggcg gttatgtctg gcatctggt ggtggctctc gcctggcct cccctcagtg cttctactcc accgtcacca tggaccaggg tggcaccagg	Homo sapiens

Homo
sapiens

P

NP_001048.1

152198 Tachykinin
Receptor 2

456

tgctgtgtgg cctggcccg agacagcggg ggcaagacgc tcctcctgta ccacctcgtg
gtgatcgccc tcatctactt cctgccgctc gcggtgatgt ttgtagccta cagcgtcatc
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IYSMTAIAAD RYMAIVHPFQ PRLSAPSTKA VIAGIWLVAL ALASPQCFYS TVTMDQGATK
CVWAWPEDSG GKTLLYHLV VIALLIYFLPL AMFVAYSVI GLTLWRRRAVP GHQAHGANLR
HLQAKKKFKV TMVLVLTFE ICWLPHYLYF ILGSFQEDIY CHKFIQQVYL ALFWLAMSST
MYNPIIYCCL NHRFRSGFRL AFRCCPWVTP TKEDKLELTP TTSLSTRVNR CHTKETLFMA
GDTAPSEATS GEAGRPQDGS GLWFGYGLLA PTKTHVEI
ccgctccccg gctcctcttt ggctgggggt aacccgaggt gcagagctga gaatgagcgc A
atttcggagg atggagaaat agccccgagt cccgtggaaa atgaggcccg cggacttgct
gcagctgggt ctgctgctcg acctgccag ggactgggc ggaatgggt gttcgtctcc
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caccatatgt ggggacagtg aagacatggt ggttaccctt aagtcctgat agttcaaccc
gtgtgaagac ataattgggtt acaagttcct gagaattgtg gtgtgggttcg ttagtctgct

Homo
sapiens

A

NM_000369

152201 Thyrotropin
Receptor

457

458	152201	Thyrotropin Receptor	NP_000360.1	<p>ggctctctg ggcaatgtct ttgtctctgct tattctctc accagccact acaaaactgaa cgtooooo gtttctcatgt gcaacctggc ctttgcggat ttctgcatgg ggaatgtacct gtctctcatc gcctctgtag acctctacac tcaactctgag tactacaacc atgccatoga ctgggcagaca ggccctgggt gcaacacggc tggtttcttc actgtctctt caagcgagtt atcggtgtat acgtgacgg tcatcacctt ggagcgctgg tactgcatca ccttcgcat ggcctggac cgggaagatcc gcttcaggca cgcagtgtgc atcatggttg gggctgggt ttgtctcttc cttctcgccc tgcttctctt ggtgggaata agtagctatg ccaaagtcag tatctgcctg cccatggaca ccgagacccc tcttgcctg gcataatatt ttttctctt gagctcaac atagttgctt tctctcatgt ctgtctgtgt catgtgaaga tctacatcac agtcgaaat ccgagatata acccagggga caaagatacc aaaaatggcca agagatggc tgtgttgatc ttcaaccgact tcatatgcat ggcccacatc tcatctatg cctgtcagc aatctgaac aagcctctca tcactgttag caactccaaa atctgtctg tactcttcta tcaacttaac tctgtgcca atccattcct ctatgtctatt ttacccaagg ccttccagag ggatgtgttc atctactaca gcaagtgttg catctgtaaa cgccaggctc aggcataccg ggggcagagg gttctctcaa agaacagcac tgatatctag gticaaaagg ttaccacga catgaggcag ggtctccaca acatgggaaga tgtctatgaa ctgattgaaa actcccatct aaccctaaag aagcaaggcc aaatctcaga agagtatatg caaacgggtt tgtaagttaa cactacacta ctcaacaatg taggggaact taaaaataa tagttcttg aatagtcatt ccaatcccat</p>	Homo sapiens
459	152245	C-C Chemokine Receptor 2	NM_000648	<p>MRADLLQLV LLLDLPRDLG GNCSSPPCE CHQEDFRVT CKDIQRIPSL PPSTQTLKLI P ETHRTIPSH AFSNLPNISR IYVSIDVTLO QLESHSFYNL SKVTHIEIRN TPNLTYYIDPD ALKELPLKLF LGFNTGLKM FPDLTKVYST DIFFILEITD NPYMTSIPVN AFQGLCNETL TLKLYNNGFT SVQGYAFNGT KLDVAVLNKN KYLTVIDKDA FGVYSGPSL LDVSQTSVTA LPSKGLEHLK ELIARNTWTL KKLPLSLSLF HLTRADLSYP SHCCAFKNQK KIRGILESLM CNESMSQSLR QRSVNAI NS PLHQEYEENL GDSIVGYKEK SKFQDTHNNA HYYVFFEEQE DEIIGFQOEL KNPQETLOA FDSDYDITIC GSEDVMTCTP KSDEFNCPED IMGYKFLRIV VWFVSLALL GNVEVLLILL TSHVKLNVR FLMCNLAFAF FCMGMYILLI ASVDLYTHSE YYNHAIWQT GPGCNTAGFF TVEASELSVY TLTVTILERW YAITFAMRLD RKIRLRHACA IMVGGWVCCF LLALLPLVGI SSYAKVSICL PMDTETPLAL AYIVFVLTIN IVAFVIVCCC HVKIYITVRN PQYNPGDKDT KIAKRMVLI FTFDICMAPI SFYALSAILN KPLITVSNK ILLVLFYPLN SCANPFLYAI FTKAFQRDVE ILLSKFGICK RQAQAYRGQR VPPKNSTDIQ VQKVTHDMRQ GLHNMEDVYE LIENSHLTPK KQGQISEEYM QTVL caggactgcc tgagacaagc cacaagctga acagagaaag tggattgaac aaggacgcac A ttcccagta catccacaac atagctgtcca catctcgttc tcggtttatc agaaatacca acgagagcgg tgaagaagtc accacctttt ttgattatga ttacgggtgc cctgttcata aattgacgt gaagcaaat ggggcccaac tctctcctcc gctctactcg ctggtgttca tctttggttt tgtgggcaac atgctgggtcg tctcatctt aataaactgc aaaaagctga agtgttgac tgacatttac ctgctcaacc tggccatctc tgatctgctt ttctttatta ctctcccat gtgggctcac tctgtgtcaa atgagtgggt ctttgggaat gcaatgtgca aattattcac aggtctgtat cacatcggtt attttggcg atcttcttc atcatcctcc tgacaatcga tagatacctg gctattgttc atgtgtgtt tgctttaaaa gccaggacgg</p>	Homo sapiens

460	152245 C-C	NP_000639.1	Chemokine Receptor 2	<p> tcaccttgg ggtggtgaca agtgtgatca cctggttggt ggctgtgttt gcttctgtcc caggaatcat ctttactaaa tgcagaaaag aagattctgt ttatgtctgt ggccttatt ttccacgagg atggaataat ttccacacaa taatgaggaa cattttgggg ctggtctctgc cgctgctcat catggtcatc tgcctactcg gaatccctgaa aacctgctt cgggtgcgaa acgagaagaa gaggcatagg gcagtgagag tcatctcac catcatgatt gtttacttcc tcttctggac tccctataac attgtcattc tctgaacac cttccaggaa ttcttcggcc tgagtaactg tgaagacc accaactgg accaagccac gcaggtgaca gagactcttg ggatgactca ctgctgcatc aatcccatca tctatgcctt cgttggggag aagttcagag ggtatctctc ggtgttcttc cgaagcaca tcaccaagcg cttctgcaa caatgtccag ttttctacag ggagacagtg gatggagtga cttcaacaaa cagccttcc actggggagc aggaagtctc ggtggttta taaaacgagg agcagtttga ttgtgttta taaagggaga taacaatctg tatataacaa caaactcaa ggttttgttg acaaatagaa acctgtaaag caggtgccca ggaacctcag ggtgtgtgt actaatacag actatgtcac ccaatgcata tccaacatgt gctcagggaa taatccagaa aaactgtgg tagagacttt gactctccag aaagctcatc tcagctcctg aaaaatgcct cattaccttg tgctaatcct cttttctag tcttcataat tcttcactc aatctctgat tctgtcaatg tcttgaatc aagggccagc tggaggtgaa gaagagaatg tgacaggcac agatgaatgg gagtgaggga tagtggggtc agggctgaga ggagaaggag ggagacatga gcattggctga gcctggacaa agacaaaagt gagcaagggt ctacgcatt cagccaggag atgatactgg tcttagccc catctgccac gtgtatttaa ccttgaagggt ttccaccaggt cagggaactg ttgggaactg caataacctg ggagttttgg tggagtccga tgattctctt tggcataagt gcattgacata ttttgcctt attacagttt atctatggca cccatgcacc ttcatattga aatctatgaa atatcatgct ccattgttca gatcttctt agggcacatc cccctgcta aaaaatcaga aaattttgt ttataaaga tgcattatct atgatatgct aatatatga tatgcaatat aaaatttag MLSTSRSRFI RNTNESGEEV TTFDDYDGA PCHKFDVKQI GAQLPPLYS LVFIFGVGN P MLVLILINC KKLKLTDIY LNLALSDLL FLITPLMAH SAANEWVFGN AMCKLFTGLY HIGYFGGIF IILLIDRYL AIVHAVFALK ARTVTFGVV SVITWLVAVF ASVPGIIFTK CQKEDSVVVC GPYPRGMN FHTIMRNILG LVLPLIMVI SVITWLVAVF RCRNEKRRHR AVRVIPTIMI VFLEWTPYN IVILNLTFOE FFLSNCEST SQLDQATQVT ETLMTHCCI NPILYAFVGE KFRYLSVFF RKHITKRECK QCPVYRETV DGVTSINTPS TGEQEVSAGL CAGAAATCCT CAGGTCCAC AGAATGAAC ACGTTTCTA AAATAAAGTC AAGCCAAGCT A GTCCTACCCC AAAGAAATC CTAGCAAGCA AAGTGGCTT CCTCCTGAG GCCCAGCCA GGTGTGTCCA ACCGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC AACTGATGAG TAAGTGAAA TAGGGAACC AAGTCAGAG ACACCTCCCT TCTGAGTCCC AACCATGTCT ACATCTGGAG AAGAACAGTT AAGTCAAGGG ATCACAGACT TGTGATTAGA GACTGCCAGG GTCCATATGA CCAAGCGGGG GTCCAGGTG TGAAGCTGGG GTTAGAGGATC CATPATCTGA ATTTTCCACT CTATGGATGA TCACTTTTAT TCTTTTCTT TCTTGAATT TATTTCCATT TGTATTCC TAAATTCCT GGTAGATCAC CTGTGAAAGC TTGCAACTGT CTGATPAAGAA TAAAGGGGGA AGGATTTGAC TTTAGACAGG AGACTTCAGA AGGAGTCCTC TCTAGGAGCA AATTGGGGG AATCCAGTGG GAAGACTGGC GAGACTGCA CTTGAGCTGC GTTTGGACAA CAGGCACACA ATCTTACTT ACTTTTCAGG CTGCTTTGAG GT </p>	Homo sapiens
461	152299 Interleukin-8 Receptor A	LG5459		<p> NP_000639.1 </p>	Homo sapiens

462	152299 Interleukin-8 Receptor A	NM_000634	agctgttaag tcactctgat ctctgactgc agctcctact gttggacaca cctggccggt A	Homo sapiens
			gcttcagtta gatcaaacca ttgctgaaac tgaagaggac atgtcaataa ttacagatcc	
			acagatgtgg gattttgatg atctaaattt cactggcatg ccacctgcag atgaagatta	
			cagccctgt atgctagaaa ctgagacact caacagtat gttgtgatca tgcctatgc	
			cctagtgttc ctgctgagcc tgctgggaaa ctccctggty atgctggta tctatacag	
			cagggtcggc cgctccgtca ctgatgtcta cctgctgaac ctggccttgg ccgacctact	
			ctttgcccctg accttgcca tctggggcgc ctccaagggt aatggctgga tttttggcac	
			attcctgtgc aaggtgtct cactcctgaa ggaagtcaac ttctacagt gcatcctgct	
			gttggcctgc atcagtgtgg accgttaacct ggccattgtc catgccacac gcacactgac	
			ccagaagcgt cacttggtca agtttgtttg tcttggctgc tggggactgt ctatgaatct	
			gtccctgccc ttcttccctt tccgccaggc ttaccatcca aacaattcca gtccagtttg	
			ctatgaggtc ctgggaaatg acacagcaaa atggcggtg gtgttcgga tcttgcctca	
			caactttggc ttcatcgtgc cgctgtttgt catgctgttc tgctatggat tcacctgcg	
			tacactgttt aaggccaca tggggcagaa gcaccgagcc atgagggtca tctttgctgt	
			cgctcctc ttctgcttt gctggctgcc ctacaacctg gtctgtctgg cagacacct	
			catgaggacc caggtgatcc aggagagctg tgagcgccgc aacaacatcg gccgggccct	
			ggatgccact gagattctgg gatttctoca tagctgctc aacccatca tctacgcctt	
			catcgcccaa aattttcgcc atggattcct caagatcctg gctatgcatg gcttgggtcag	
			caaggagttc ttggcacgtc atcgtgttac ctctacact tcttctgtg tcaatgtctc	
			ttccaacctc tgaaaacct cgatgaagga atatctcttc tcagaagga agaataacca	
			acacctgag gtgtgtgtg gaaggtgatc tggctctgga caggcactat ctgggttttg	
			gggggacgct ataggatgtg gggaagttag gaactgtgt cttcaggggc cacaccaacc	
			ttctgaggag ctgttgaggt acctccaaag accggccttt gcacctcat ggaaacgaag	
			caccatcatt ccggttgaa ctcacatctt taaccacta actggctaata tagcatggcc	
			acatctgagc ccgaatctg acattagatg agagaacagg gctgaagctg tgtcctcatg	
			agggtggat gctctcgttg acctcacag gagcatctcc tcaactctga gtgttaagcg	
			ttgagccacc aagctgtgtg ctctgtgtgc tctgattcga gctcaggggg gtggttttcc	
			catctcaggt gtgttgcat gtctgtgga gacattgagg caggcactgc caaaacatca	
			acctgcccgc tggccttgt aggagctgga aacacatgtt ccccttgggg gtggtggatg	
			aacaaagaga aagagggttt ggaagccaga tctatgccac aagaacccc ttaccacca	
			tgaccaacat cgcagacaca tgtgtggcc acctgtgag ccccaagtgg aacgagacaa	
			gcagccctta gcccttcccc tctgcagctt ccaggctggc gtgcagcatc agcatcccta	
			gaaagccatg tgcagccacc agtcctattgg gcaggcagat gttcctaata aagcttctgt	
			tcctgtccttg tccctgtgga agtatcttbg ttgtgacaga gtcaaagggtg tgtgcagcat	
			tgttgctgt tcttgcatga gaatgggggc agcacctct aagaaggcac ctctctgggt	
			tgaagggcag tgttccctgg ggctttaact cctgctagaa cagtctcttg aggcacagaa	
			actcctgttc atgccatac ccttgccaa ggaagatccc ttgtccaca agtaaaagga	
			aatcctctc caggaggtct cagcttcacc ctgagggtgag catcatcttc tgggttaggc	
			cttgcctagg catagcctgc ctcaagctat gtgagctcac cagtcctccc ccaaagtctt	
			tccatgagtt gcagtttttt cctagtctgt ttcccctct tggagaacag ggcctgtctg	
			gtttgttcac tgtatgtcct tgggtgcctgg agcctactaa atgtcctaata aataatgac	

463	152299	Interleukin-8 Receptor A	NP_000625.1	MSNITDPQMW DFDDLNFQMG PPADEDYSPC MLETETLNKY VVIIAYALVF LLSLLGNSLV P MLVILYSRVG RSVTDVYLLN LALADLLEAL TLPWAASKV NGWIFGTFLC KVSLLKEVN FYSGILLAC ISVDRYLAIV HATRTLQKR HLKFKVCIGC WGLSMNLSLP FFLFRQAYHP NNSSPVCYEV LGNDTAKWM VLRILPHTFG FIVPLFVLMF CYGFTLRILF KAHMGQKHRA MRVIFAVLI FLICWLPYNL VLLADTLMRT QVIQESCERR NNIGRALDAT EILGFLHSCL NPILYAFIQG NFRHGLKIL AMHGLVSKEF LARHRTSYT SSSVNVSSNL	Homo sapiens
464	158822	Mas Proto-Oncogene	NM_002377	cctgagggcct cctcatggat gggtcaaacg tgacatcatt tggtgttgag gaaccacga A acatctcaac tggcaggagc gctcagtcg ggaatgcaca tcggcaaatc cccatcgtgc actgggtcat tatgagcatc tcccagtggt gggttgggga gaatgggatt ctctctgggt tctgtgctt ccggtatgaga agaaatccct tcactgtcta catcacccac ctgtctatcg cagacatctc actgctcttc tgtattttca tctgtctat cgactatgct ttagattatg agctttcttc tggccattac tacacaattg tcacattatc agtgactttt ctggttggct acaacacggg cctctatctg ctgacggcca ttagtgtgga gaggtgcctg tcagtccttt accccatctg gtaccgatgc catcgcccca agtaccagtc ggcattggtc tgtgcccttc tgtgggctct ttcttgcttg gtgaccacca tggagtatgt catgtgcac gacagagaag aagagagtca ctctcggaat gactgccgag cagtcacatc ctttatagcc atctgagct tctgtgctt cagccctc atgctgggtg ccagcaccat cttgggtcgt aagatccgga agaacacgtg ggttcccat tctcccaagc ttacatagt catcatggtc accatcatta tattcctcat cttcgctatg cccatgagac tctttacat gctgtactat gagtattggt cgaccttgg gaacctacac cacatttccc tgcctcttc cacaatcaac agtagcgcca acctttcat ttactcttt gtgggaagca gtaagaagaa gagattcaag gactccttaa aagttgtct gaccagggtc ttaaaagatg aaatgcaacc tcggcgccag aaagacaatt gtaatacgggt cacagttgag actgtcgtct agaaactgtg agggaagtgt tggataaaaa tgggtgaaca caggtcatct ttagttgtg ctgggaatat gacttaagta tctcctaaat gtgatacaga agaactctc atcccatatg catgagatc taattaatga tgaata MDGSNVTSTFV VEETNISTG RNASVGNHR QIPVHWIM SISPVGFVEN GILLWFLCFR P MRRNPFTVYI THLSIADISL LFCIFILSID YALDYELSSG HYTVITLSV TFLFGYNTGL YLLTAISVER CLSVLYPIWY RCHRPKYQSA LVCALLWALS CLVVTMEYVM CIDREEESH RNDRAVIIF IALISFLVFT PLMLVSSSTIL VVKIRKNTWA SHSKLYIVI MVTIIIFLIF AMPMLLYLL YYEYWTSTGN LHHISLLEST INSSANPFYI FVVGSSKKR FRESLKVLT RAFKDEMQR RQKDNCTVT VEIVV	Homo sapiens
465	158822	Mas Proto-Oncogene	NP_002368.1	atgctgcccgg actggaagag ctccttgatc ctcattggctt acatcatcat cttctcact A ggcctccctg ccaacctctt ggcctgctgg gctttgttg ggcggatccg ccagccccag cctgcacctg tgcacatcct cctgctgagc ctgacgtctg ccgacctctt ctgctgctg ctgctgccct tcaagatcat cgaggctgctg tcgaacttcc gctgggtacct gcccaaggct gtctgcgcc tcacgagttt tggcttctac agcagcatct actgcagcac gtggctcctg gggggcatca gcatcgagcg ctactggga gtggcttcc ccgtgcagta caagctctcc cgccggcctc tgtatggagt gattgcagct ctggtggcct gggttatgtc ctttgggtcac tgcaccatcg tgatcatcgt tcaatacttg aacacgactg agcagggtcag aagtggcaat	Homo sapiens
466	159152	G Protein-Coupled Receptor GPR43	NM_005306		Homo sapiens

467	159152	G Protein- Coupled Receptor GPR43	NP_005297.1	gaaattacct gctacagaaa cttcaccgat aaccagttgg acgtggtgct gcccggtgagg ctggagctgt gctgtgtgct cttcttcac cccatggcag tcaccatctt ctgtactctg cgttttgtgt ggtatcatgt ctccagccc cttgtggggg cccagaggcg gcgccgagcc gtggggctgg ctgtgtgtgac gctgtcctaat ttctgtgtgt gcttcggacc ttacaactgt tcccactgg tggggtatca ccagagaaaa agccctctgt ggcgttcaat agccgtggtg ttcagttcac tcaacgccag tctggacccc ctgtctctct attctctctt ttcagtggtg cgccaggcat ttgggagagg gctgcagggtg ctgcggaate agggctctct cctgttgagg cgccaggga aagacacagc agaggggaca aatgaggaca ggggtgtggg tcaaggagaa ggatgccaa gttcggaatt cactacagag tag MLPDKSSLI LMAYIIIFLT GIPANLLALR AFVGRIRQPQ PAPVHILLLS LTLADLLLLL P LLPFKIIIEA SNFRWYLPKV VCALTSFGFY SSIYCSTWLL AGISIERYLQ VAFPVQYKLS RRPLYGVIAA LVAWMSFGH CTIVIIQYXL NTTEQVRSNG EITCYENFTD NQLDVLPVR LELCIVLFFI DNATVIFCYW RFVIMLSQP LVGAQRRRRA VGLAVVTLN FLVCFGPYNV SHLVGYHQK SPWRSIAV FSSINASLDP LLFYFSSSV RRAFGRLQV LRNQGSSLLG RRGKDTAEGT NDRGVGQGE GMPSSDFTTE	Homo sapiens
468	159973	Vasoactive Intestinal Polypeptide Receptor 1	NM_004624	ggccacagge cagcgccact ctgcccaggct cccggccatc gcccgctgg tgcgcccgc A gccagctctt tgcgcgcgcg gggccgccc cccgaggctc agggcagacc atgcgcccgc caagtccgt gccgcgcgcg tggctatgct gctgtggcag cgcctcgcg tggcccttg ggccggcggg cggccagcgc gccaggctgc aggaggagtg tgactatgtg cagatgatcg aggtgcagca caagcagtc ctggaggagg cccagctgga gaatgagaca ataggctgca gcaagatgtg ggacaacctc acctgctgc cagccacctc tccggtggccag gtagttgtct tggcctgtcc cctcatctc aagctctct cctccattca agcccgcaat gtaagccgca gctgcaccga cgaaggctgg acgacactgg agcctggccc gtaccccat gctgtgtgtt tggatgacaa gccagcagat ttggatgagc agcagaccat gttctacggt tctgtgaaga ccggctacac cattggctac ggcctgtccc tggccacctc tctgtgtgccc acagctatcc tgagcctgtt caggaagctc cactgcacgc ggaactacat ccacatgcac ctcttcatat cttcatcct gagggctgcc gctgtcttca tcaaaagactt ggccctcttc gacagcgggg agtccgacca gtgctccgag ggtcgggtgg cctgttaaggc agccatggtc tttttccaat attgtgtcat ggttaacttc ttctggctgc tgggtggagg cctctacctg tacaccctgc ttgcgcttc ctctctctct gagcggaaat actctggggg gtacatactc atcggtgtgg gggtaccag cacttcacc atggtgtgga ccatcgccag gatccatttt gaggattatg gggtctggga caccatcaac tctcactgt ggtggatcat aaaggggccc atctcacct ccatcttgtt aaacttcac ctgtttattt gcatcatccg aatcctgctt cagaaactgc ggccccaga tatcaggaaag agtgacagca gtcatactc agggctagcc aggtccacac tctctgtgat cccctgttt ggagtacact acatcatgtt cgccttcttt ccggacaatt ttaaagcctga agtgaagatg gtctttgagc tegtctgtgg gcttttccag ggttttgtgg tggctatcct ctactgctc ctaaatggtg aggtgcaggc ggagctgagg cggaaagtgc ggcgtggca cctgcagggc gtctgtggct ggaaccccaa ataccggcac ccgtcgggag gcagcaacgg cgcacagtgc agcagcagg ttctcatgct gaccgcgtc agccagggtg ccgcgcgtc ctccagctc caagccgaag tctcctggt ctgaccacca ggtatccagg ggcccaaggc ggcctctccc actcaacccc gcagacgccc gggacagagg	Homo sapiens

469	159973	Vasoactive Intestinal Polypeptide Receptor 1	NP_004615.2	<p>cctgccccg cgcgcccgag cccggccctg ggctcggagg ctgcccccg cccctggctc</p> <p>tctggtccg acactcctag agaagcagc cctagagcct gccggagcg tttctagcaa</p> <p>gtgagagaga tgggagctcc tctcctggag gattgcaggt ggaactcagt cattagactc</p> <p>ctcctccaaa ggccccctac gccaatcaag ggcaaaaagt ctacatactt tcatectgac</p> <p>tctgccccct gctggctctt ctgcccattt ggaggaagc aaccgggga tectcaaca</p> <p>acactggtg gactgaggg cagaagggtt ctgccccgg aaggtcacca gcaccaaac</p> <p>cacggtagt cctgaattt caccattgct gtcaagttcc ttggggttaa gcataccac</p> <p>tcaggcattt gactgaagat gcagctcact acctattct ctcittacgc ttagtattca</p> <p>gctttttaa gtgggttatt cbggagtttt tgtttggaga gcacacctat cttagtgggt</p> <p>ccccaccgaa gtggactggc cctgggttca gtctgggtgg aggacggtc aaccaagg</p> <p>ctgagggact ctgaagcctc tgggaaatga gaagcagcc accagcgaat gctaggctc</p> <p>ggactaagcc tactgtctct ccaagtctca gtggcttcat ctgtcaagt ggatctgtca</p> <p>cacagccat acttatctct ctgtgctgtg gaagcaacag gaatcaagag ctgcccctc</p> <p>tgtccaccca cctatgtgcc aactgttga actaggctca gagatgtgca ccatgggct</p> <p>ctgacagaaa gcagatacct caccctgcta cacatacagg atttgaactc agatctgtct</p> <p>gataggaatg tgaagcacg gactctact gctaaacttt gtgtatcgta accagccaga</p> <p>tctcttgggt tatttgttta ccaattgtat tattaatgcc attatcctga attccccctg</p> <p>ccacccacc ctccctggcg tgtggctgag gaggcctcca tctcatgtat catctggata</p> <p>ggagcctgct ggtcacagcc tctctgtct ccccttcacc ccagtggcca ctacgcttcc</p> <p>taccacacc tctgccagaa gatccccctca ggactgcaac aggtctgtgc aacaataaat</p> <p>gttgctggg a</p>	MRPSPPLPAR WLCVLGALA WALGPAGQA ARLOECDYV QMIEVQHKQC LEEAQLENET P	Homo sapiens
470	160040	Vasoactive Intestinal Polypeptide Receptor 2	NM_003382	<p>cgggacgag ggcgccgccc cgctcggcg ggcctggct acagctgcgg ggcgcgaggt A</p> <p>ctcgcgcac tgcctcccg cccatgctgg agcgccgga accggggga cctaggacgg</p> <p>aggcgccgg cgctggggcg ccccgccac gctgagctcg ggatgcggac gctgctgcct</p> <p>cccgctgc tgacctgctg gctgctgcc cccggaaca gcattcccc agaatgccga</p> <p>tttcaatctg aaatacagga ggaagaaaca aaatgtacag agcttctgag gctcacaaca</p> <p>gaaaaacaca agcctgcag tggcgtctgg gacaacatca cgtgctggcg gctgccaat</p> <p>gtgggagaga ccgtcacggt gccctgccc aaagtcttca caattttta cagcaaaagca</p> <p>ggaacataa gcaaaaactg taagagtac ggaaggtcag agcgttccc agattcgtc</p> <p>gatgctgtg gctacagcga ccggaggat gagagcaaga tcacgtttta tattctgggtg</p> <p>aaggccattt atacctggg ctacagtgc tctctgatgt ctcttgcaac aggaagcata</p> <p>attctgtgcc tcttcaggaa gctgactgc accaggaatt acatccacct gaactgttc</p> <p>ctgtccttca tcttgagagc catctcagtg ctggtcaagg acgacgttct ctactccagc</p>	PSGGNGATC STQVSMLTRV SPGARSSSF QAEVSLV	Homo sapiens

471	160040 Vasoactive Intestinal Polypeptide Receptor 2	NP_003373.1	<p>tctggcacgt tgcactgccc tgaccagcca tcctcctggg tgggctgcaa gctgagcctg gtcttcctgc agtactgcat catggccaac ttcttctggc tgctggtgga ggggctctac ctccacaccc tctggtggc catgtccc cctagaaggt gcttctctgc ctacctctg atcgatggg gcttcccac cgtctgcatc ggtgcatgga ctgcccag gctctacta gaagacacg gttgctgga tacaacgac cacagtgtgc cctggtgggt catacgaata cagatttaa ttccatcat cgtcaattt gtcctttca ttagtattat acgaatttg ctgcagaagt taacatccc agatgtggc ggcaacgacc agtctcagta caagaggctg gccaagtcca cgtctctgct tateccgctg ttccggctcc actacatggt gtttgccgtg tttcccatca gcatctctc caaataccag atactgtttg agctgtgctt cgggtcgttc cagggcctgg tgggtggcgt cctctactgt ttctggaaca gtgagtgca gtgcagctg aagcgaataat ggcgaagccg gtgcccgaac ccgtccgca gcccggatta cagggtctgc ggttctctct tctcccacaa cggctcgag ggcgctgc agtccaccg cgcgtcccga gccagtcct tctgcaaac ggagacctg gtcactagc cccacccctg cctgtcggac gcggcgagg gccacggtt cggggtctt cgggggctga gacgcggct tectcttcc agatgccga gacccgtgc gggcaggtca ggcggtctt gactccgtca agctggttgt ccactaaacc ccatacctg</p>	<p>Homosapiens</p>
472	160055 Motilin Receptor (GPR38)	NM_001507	<p>atgggacagc cctggaacg cagcagcgc cccgagggg cgcgggagcc gccgtggccc A gcgtgccgc cttgcacga gcgcgctgc tgcctcttc cctgggggc gctggtgcg gtgaccgctg tgtgctgtg cctgttcgtc gtcggggtga gcggcaact ggtgaccgtg atgctgatc ggcgtacac ggacatgcgg accaccacca acttgtacct gggcagcatg gcgtgtccg acctactcat cctgtcggg ctgcgcttcg acctgtacc cctctggcg tcgcggccct ggtgttcgg gcgctgctc tgcgctctg cctctactg gggcagggc tgcaacctac ccaagctgtc gcacatgacc gcgtcagcg toagcgcta cctggccatc tgccgccgc tccgccccg cgtcttggtc accggcgcc gcgtccgcg gctcactgct gtgctctgg ccgtggcgt gctctctgc ggtcccttct tgttctctgt gggcgtcag caggacccc gcatctcgt agtcccggc ctcaatggca cgcgcggat cgcctctctg cctctgctt cgtcgcgcg tctctggtc tgcggggcg caccgctgc cccgctctg gggcccaga ccgaggagc cgcggcgctg ttacagccg aatgccggc gagccccg cagctggcg cgtgctgtt catgctgtg gtacaccacg cctacttct cctgcccctt ctgtgctca gcatctcta cgggtctatc gggcggtgagc tgtggagcag ccggcgccg ctgcgagcc cggccgctc gggcggtgag agagggcacc ggcagacct cgcgtctctg ctggtggtg tctggcatt tataatttc tgggtgctt tccacgttg cagaatcatt tacataaaca cgaagattc gggatgatg tacttctct agtactttaa catcgtcgt</p>	<p>Homosapiens</p>

473	160055	Motilin Receptor (GPR38)	NP_001498.1	<p>ctgcaacttt tctatctgag cgcattctatc aaccaatcc tctacaacct catttcaaag aagtacagag cggcgccctt taaactgctg ctcgcaagga agtccaggcc gagaggcttc cacagaagca gggacactgc gggggaagt gacaggagga caggtgggc tacaccgaga caagcgctaa cgtgaagac atgggataa MLIGRYRDMR TTNLYLGM AVSDLLILG LPFDLYLRMR SRPWVFGPLL CRSLXYVGE CTYATLLHMT ALSVERYLAI CRPLRARVLV TRRRVRALIA VIMAVALLSA GPFLLVGE QDFGISVVP LNTARIASS PLASSPPLWL SRAPPPSPS GPETAEEAAL FSRECRPSA QLGALRVLW VTTAYFFLPF LCLSLYGLI GRELWSSRRP LRGPAAAGRE RGHRTVTVL LVVVLAFIIC WLPFHVGRII YINTEDSRM YFQYFNIVA LQFLYLSASI NPILYNLISK KYRAAFKLL LARKSRPRGF HRSRDTAGEV AGDTGGDTVG YTETSANVKT MG</p>	Homo sapiens
474	160059	G Protein- coupled Receptor GPR40	NM_005303	<p>atggacctgc ccccgagct ctctctggc ctctatgtg cgcctttgc gctgggcttc A cgcctcaacg tctcggccat cggaggcgc agggccacg cccggctccg tctcaccct agcctggctc acgcccgtga cctgggctgc tccgacctgc tgcgacactg ctctctgccc ctgaaggcgg tggaggcgt agcctccggg gctggcctc tgcggcctc gctgtgcccc gtcttcggcg tggccactt ctccacctc tatgcccgg ggggcttctt ggcgccttg agtgcaggcc gctacctgg agcagcctc cctttggct accaagcctt cgggaggcgg tgcattctct ggggggtgtg cgcggccatc tgggcccctg tctgtgtca cctgggtctg gtctttgggt tggaggctcc agggagctgg cttggacctc gcaacacctc cctgggctc aacacaccgg tcaacggctc tccggtctgc ctggaggcct gggaccggc ctctgccc cgggcccgtc tcaactctc tctcctgctc tctcctggc cctgggctc caccgcttc tgcactgtgg gctgctcccg ggcactggc ctcacgctgc tgcctgtcgt agcaccctac cgggcccctt ggttgcccg agtgccctc cttcctgtac ccaactctag gaggctcctg gggaaagctg aacgctcca acgtggccag cttcctgtac ctaactccgc tggtagccgg ttacttggga ggggtcctg gctgaagac agtgtgtgc gcaagaacgc aagggggcaa gtccagaag taa</p>	Homo sapiens
475	160059	G Protein- coupled Receptor GPR40	NP_005294.1	<p>MDLPQLSFG LYVAAFALGF PLNVLAIRGA TAHARLRLTP SLVYALNLGC SDLLTVSLP P LKAVEALASG AWPLPASLCP VFAVAHFPL YAGGFLAAL SAGRYLGAAP PLGYQAFRRP CYSWGVCAAI WALVLCHLGL VFGLEAPGGW LDHNTSLGI NTPVNGSPVC LEAWDPASAG PARFSLSLIL FFLPLATAF CYVGLRALA RSGITHRRKL RAAVAGGAL LTLILCVGPY NASNVASFLY PNLGSRWKL GLITGAWSVV LNPILVTGYLG RGPLKTVCA ARTQGGKSQK atgcacaccg tggctacgtc cggaccacac gcgtcctggg gggcaccggc caacgctcc A ggctgcccgg cgtgtggcgc caacgctcg gacggcccg tccctcgc gggggcctg gacgctggc tctgtccgt cttctcgc ggcgtgatgc tgcgggctt ggtggggaac tgcgtgttca tctacgtcat ctgcggccac agccgatgc gaccgtgac caacttctac atcgccaac tggcgccac gacgtgacc ttcctcctg gctgcgtccc cttcacggcc ctgctgtacc cgtgcccgg cttgggtgtg ggcacttca tgcgaagt cgtcaactac atccagcagg tctcgggtga ggcactgtg gccacttga cgcctatgag tctggaccgc tggtagctga cgtgttccc gttgcggcc ctcacccgc gacggcccc cctggcgctg gctgtcagcc tcagcatctg gtaggctct cggcgctgt ctcgcccgtg ctcgcccctg</p>	Homo sapiens
476	160189	G Protein- Coupled Receptor GPR54	NM_032551	<p>atgcacaccg tggctacgtc cggaccacac gcgtcctggg gggcaccggc caacgctcc A ggctgcccgg cgtgtggcgc caacgctcg gacggcccg tccctcgc gggggcctg gacgctggc tctgtccgt cttctcgc ggcgtgatgc tgcgggctt ggtggggaac tgcgtgttca tctacgtcat ctgcggccac agccgatgc gaccgtgac caacttctac atcgccaac tggcgccac gacgtgacc ttcctcctg gctgcgtccc cttcacggcc ctgctgtacc cgtgcccgg cttgggtgtg ggcacttca tgcgaagt cgtcaactac atccagcagg tctcgggtga ggcactgtg gccacttga cgcctatgag tctggaccgc tggtagctga cgtgttccc gttgcggcc ctcacccgc gacggcccc cctggcgctg gctgtcagcc tcagcatctg gtaggctct cggcgctgt ctcgcccgtg ctcgcccctg</p>	Homo sapiens

338/448

477	160189	G Protein- Coupled Receptor GPR54	NP_115940.1	<p>cacgcctgt caccgggccc ggcggcctac tgcagtgagg ccttccccag ccgcgccctg gagcgccct tgcactgta caactgtcg ggcctgtacc tgcctgcctg gctgcgccacc tgccctgtct atcgggccat gctgcgccac ctgggcccgg tgcctgtcg ccccgcccc gcgcatagcg cctgcaggcg gcagtgctcg gcagagccgt gcgggccaag gcgggccaag gtctcgccgc tgggtggcgc cgtggtcctg ctcttcgccc gctgctggcg ccccatccag ctgttcctgg tgcctgagcg gctgggcccc gggggctcct ggcacccacg cagctacgccc gctacgcgc ttaagacctg ggtcactgc atgtcctaca gcaactccgc gctgaacccg ctgctctacg ccttctctgg ctcgcacttc cgcagagcct tccgcccgtg ctgccccctg gcgcgcgc gcccccgcg ccccgcccg cccggaccct cggacccccg agccccacac gggagctgc accgctggg gtcccacccg gccccgcca gggcgcaaa gccagggagc agtgggctgg ccgcgcgcg gctgtgcgtc ctgggggagg acaacgcccc tctctga</p>	Homo sapiens
478	160202	Adrenomedullin in Receptor (ADMR)	IG6564	<p>SLVTYVICRH KPMRTVTNFI IANLAATDVT FLICCVPTA LLYPLPGWVL GDMCKFVNY IQQVSQATC ATLTAMSVDR WYTVFPLRA LHRTPRIAL AVSLSIWVGS AAVSAPVLAL HRLSPGPRAY CSEAFPSRAL ERAFALYNLL ALYLPLLIAT CACYAAMLRH LGRVAVRPAP ADSALQGQVL AERAGAVRAK VSRILVAWVL LFAACWGPQI LFLVLQALGP AGSWHPRSYA AYALKTWAHC MSYSNSALNP LLYAFLGSHF RQAFRRVCP RPRRRPRR PGPSDPAAPH AELHRLGSHP APARAQKPGS SGLAARGLCV LGEDNAPL</p>	Homo sapiens
479	160202	Adrenomedullin in Receptor (ADMR)	NM_007264	<p>CGCGGCCAC GTGCTGCTG CTGCGCGCCT ACCTGACGGC GCATTGTCTAT GCACCTGGCTG A ACCTATCATG AGACCTGCT GTGCTCACA CTGTATGAA CCACATCTG CTACACTGC CACCTGGTAC CAACCTGCT ACTTCTTCTA TGATGTCTG TGACTGCTG TACATGCTAG ACTGCGCTAT TCACCGGATC CTTGACAACT TTATCAGCCA GACTGCCGG GCGGGCTGCG ATGCTGTGGT CCATTACTTG CTAAGGACCA GACCGCGGG GCACATGCG CTCCTCTTCC TTCTGTGACA CCAAGCGTTA CATAATCATT ACCACGGGTG AFAGCCAGAC TGCTGCCAGC AACCGGCCAC CCTGCAGCCA AGCCTGAGCT TTCAGGCGACA CCATTGCTC GCAAGACTT GCGCCATGTG TCCCACTCAG TGTCTTACAC CCAGCTGAGG T</p>	Homo sapiens

480	160202 Adrenomedullin NP_009195.1 MSVKPSWGP	in Receptor (ADMR)	<p> LAMFVVGIVE NLLVICVNR GSRAGLMNL YILNMAIADL GIVLSLPVWM LEVTDYTWL WGSFSCRFTH YFYFVNMYSS IFFLVCLSD RYVTLTSASP SWQRYOHRVR RAMCAGIWL SAIPLPEV HIQLVEGPEP MCLEMAPFET YSTWALAVL STTILGFLLP FLITVFNVL TACRLRQPGQ PKSRRHCLLL CAYVAVFVVC WLPYHVHTLL LTLHGTHISL HCHLVHLLYF FYDVIDCFSM LHCVINPILY NELSPPHFRGR LLNAVVHYLP KDQTKAGTCA SSSSCSTQHS IIITKGDSP AAAAPHPEPS LSFQAHLLP NTSPISPTQP LTPS </p>	Homo sapiens
481	160204 G Protein-Coupled Receptor RTA		<p> atgcgggttc tgcctccaaa gccatctctt ccagcaggag agggctctac tctgagctcc A tattttccaa ggtctcgggc cgcgctcggc gctggcctgc tgccccggcg ggtccgcccg ccggaggcgg gagtccacag aagagccctc caaaaaagga ggccctcggcg gatcaggaca gctgcagggt ggtgtgcaga ctggtgagct gccagcagg gccagacgc gccaggcctg gagatggctg gaaactgctc ctgggaggcc catcccgga ccaggaacag gatgtgccct ggccctgagc agggcccgga actctacgc cggggcttcc tgaccatcga gcagatcgcg atgctgccgc ctccggccgt catgaactac atctctctgc tctctgctt gttgggctg gtgggcaacg ggtggttctc ctggttttcc gctctctcca tcaagaggaa ccccttctcc atctacttcc tgcacctggc cagcccgat gtgggctacc tcttcagcaa ggcggtgttc tccatctga acacgggggg ctctctggc acgtttgccc actacatccg cagcgtgtgc cgggtcctgg ggtctgcat gttcttacc ggctgagcc tctgcccgc cgtcagcgc gagcgtgcg cctcgggtcat ctccccgc tggtactggc gccggcgcc caagcgccctg tcggcgtgg tgtgcgccct gctgtgggtc ctgtccctcc tggcacctg cctgcacaa tactctcgc tgttctgg ccggggggcc ccggcgccg cctgcaggca catggacatc ttcttggga tctctgtt cctgctctgc tgcccgctca tgggtgctgc ctgctggcc ctcatcctgc acgtggagt ccggggccga ccgggccagc gctctgcaa gctcaaccac gtcatcctgg ccattgtctc cgtcttctgc gttcttctga tctactagg gatcgactgg ttctcttctt ggttctcca gatccggcc ccttcccc agtacgtcac tgacctgtgc atctgcatca acagcagcc caagccatc gttacttcc tggccgggag ggacaaagtgc cagcggctgt gggagccgct cagggtggtc ttccagcgg ccctgcggga cggcgctgag ctggggggag ccgggggcag cagcccaac acagtccca ttgagatgca gtgtccccc gggaacgct cctgagactc cagcgcctgg agcaggcagg gccaggaaag gccctccaa acccttgcct ttgggacagg aatgggcacc tgcctctgag tccatacagg agaagaaaga tctgttctct ctctcgggc ctcttctcc ctgggctggg gactccagg gtggtggga gactgggag ccaccagcaa acagacctgt gcccctggc cggctcccc accattctg ctccctaga gaccttctg acagaagtgt cccccagggt gtggggcccc tcttggcct aggcgtggtg gtaaaagaga ggaggtcaac acccagccta gccacctg cctcttgggt </p>	Homo sapiens

482	160204	G Protein- Coupled Receptor RTA	CAC39840.1	cagccctcct tgactgtgtc ccagccagca ccaggccagc agcctcatcc ctgccattca gggctgttcc agagattcga tcctcttaag gcattatcag tgagcaaatg tgaaggaaat ggtgtctgga agaaagtctt ggtcacatg ccttgtagct aagtctttct gcaacaaccc tccttcccc ccgtcgagtc atttggtagc ctttggccgc cttggtagt tgacctgact gctctggaga caggaagggc ctttggccgc cttggtagt tgacctgact tttctgactc cgggacgagc cagtcctagg ctgctccgc gagcacttg ggtatccgc aggccatgag gacccactgg gcagctcctg gacagcctt tggtccagc cccacccga aagtggacac tggtccgc ccggccacct ggggactggc actgtgtgac acagtggccc aatgtggcca acggaagttt tataaagac aaaaagtata tcaataaaca ttttataact tgc MAGNCSWEAH PGNRNRMPG LSEAPELYSR GFLTIEQIAM LPPAVMNYI FLLCLCGLV P GNGLVLMFFG FSIKRNPSI YFLHLASADV GYLFSKAVFS ILNTGGFLGT FADYIRSVCR VLGLCMFLTG VSLPVAESAE RCASVIFPAW YWRRPKRLS AVVCALLWVL SLLVTCLNHY FCVFLGRGAP GAACRHMDIF LGILLFLCC PLMWLPCIAL ILHVECRARR RORSAKLNHY ILAMVSFLV SSIYLGIDWF LFWFQIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ RLWEPLRVF QRALRDGAEL GEAGGSTPNT VTMEMQCPPG NAS atgaatgggg tctcgaggg gaccagaggc tgcagtga caaccactgg ggtcctgaca A cgtgatcgct cttgttccag gaagatgaac tcttcggat gcctgtctga ggaggtgggg tcctccgcc cactgactgt ggtatcctg tctgcgtcca ttgtcgtgg agtgcgtggc aatgggctgg tctgtggat gactgtctc cgtatggcac gcacggctc caccgtctgc ttctccacc tggcccttgc cgatttcag ctctcactg ctctgcccc tgccatgtac tatattgtct ccaggcagtg gctcctcga gactgggccc gcaaacctca catcacctt gtgttctcga gctactttgc cagtaactgc ctcttctgt tcatctctgt ggaccgttgc atctctgtcc tctacccctg ctgggcccctg aaccaccca ctgtgcagc ggcgagctgg ctggcccttg ggtgtggct ctggccgccc cgttgtgtct ctgcgcacct gaaattccgg acaaccagaa atgggaatgg ctgtacgcac tgtacttgg cgttcaactc tgacaatgag actgcccaga ttggattga aggggtcgtg gaggacaca ttataggac cattggccac ttcctgctgg gcttctggtg gcccttagca atcataggca cctgcgcca cctcatccgg gccaagctct tgcgggaggc ctgggtccat gccaaccgc ccaaggagct gctgctggtg ctggtgagcg ctttctttat cttctgttcc ccgtttaacg tgggtgtgtt ggtccatctg tgccgacggg tgatgctcaa ggaatctac caccgccga tctgtctcat cctccaggct agetttgct tgggctgtgt caacagcgc ctcaacccc tctctacgt cttcgttggc agagatttcc aagaaaagt tttccagtct ttgacttctg cctggcgag ggcgtttgga gagagaggat tctgtctatc ctgtccctg gccaacgccc cccgggaatg a MNGVSEGTG CSDRQPGVLT RDRCSRKN SSGCLSEEVG SLRPLTVVIL SASIIVGVLG P NGLVLMVTF RMARTVSTVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYITF VFLSYFASNC LLVFLSVDRCL ISVLYPVWAL NHTVQRASW LAFGWLLAA ALCSAHLKFR TTRKWNCGTH CYLAFNSDNE TAQIWIEGV EGHIGTIGH FLIGFLGPLA IIGTCAHLIR AKLLREGWVH ANRPKRLLV LVSAFFIWS PFNVLLVHL WRRVMLKEIY HPRMLLILQA SFALGCVNSS LNPFLYVFG RDRQKFFQS LTSALARAFG EEEFLSSCPR GNAPRE cagctccct cteccacct tgtctgccc tgcctcttgc tctagtctgt gtcaggagct A gactgcctcc agggctggaa tctgtgtct cctgtgtgcc cagagcccca cgatgtcgcc sapiens	Homo sapiens
483	160206	G Protein- Coupled Receptor GPR32	NM_001506	atgaatgggg tctcgaggg gaccagaggc tgcagtga caaccactgg ggtcctgaca A cgtgatcgct cttgttccag gaagatgaac tcttcggat gcctgtctga ggaggtgggg tcctccgcc cactgactgt ggtatcctg tctgcgtcca ttgtcgtgg agtgcgtggc aatgggctgg tctgtggat gactgtctc cgtatggcac gcacggctc caccgtctgc ttctccacc tggcccttgc cgatttcag ctctcactg ctctgcccc tgccatgtac tatattgtct ccaggcagtg gctcctcga gactgggccc gcaaacctca catcacctt gtgttctcga gctactttgc cagtaactgc ctcttctgt tcatctctgt ggaccgttgc atctctgtcc tctacccctg ctgggcccctg aaccaccca ctgtgcagc ggcgagctgg ctggcccttg ggtgtggct ctggccgccc cgttgtgtct ctgcgcacct gaaattccgg acaaccagaa atgggaatgg ctgtacgcac tgtacttgg cgttcaactc tgacaatgag actgcccaga ttggattga aggggtcgtg gaggacaca ttataggac cattggccac ttcctgctgg gcttctggtg gcccttagca atcataggca cctgcgcca cctcatccgg gccaagctct tgcgggaggc ctgggtccat gccaaccgc ccaaggagct gctgctggtg ctggtgagcg ctttctttat cttctgttcc ccgtttaacg tgggtgtgtt ggtccatctg tgccgacggg tgatgctcaa ggaatctac caccgccga tctgtctcat cctccaggct agetttgct tgggctgtgt caacagcgc ctcaacccc tctctacgt cttcgttggc agagatttcc aagaaaagt tttccagtct ttgacttctg cctggcgag ggcgtttgga gagagaggat tctgtctatc ctgtccctg gccaacgccc cccgggaatg a MNGVSEGTG CSDRQPGVLT RDRCSRKN SSGCLSEEVG SLRPLTVVIL SASIIVGVLG P NGLVLMVTF RMARTVSTVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYITF VFLSYFASNC LLVFLSVDRCL ISVLYPVWAL NHTVQRASW LAFGWLLAA ALCSAHLKFR TTRKWNCGTH CYLAFNSDNE TAQIWIEGV EGHIGTIGH FLIGFLGPLA IIGTCAHLIR AKLLREGWVH ANRPKRLLV LVSAFFIWS PFNVLLVHL WRRVMLKEIY HPRMLLILQA SFALGCVNSS LNPFLYVFG RDRQKFFQS LTSALARAFG EEEFLSSCPR GNAPRE cagctccct cteccacct tgtctgccc tgcctcttgc tctagtctgt gtcaggagct A gactgcctcc agggctggaa tctgtgtct cctgtgtgcc cagagcccca cgatgtcgcc sapiens	Homo sapiens
484	160206	G Protein- Coupled Receptor GPR32	NP_001497.1	atgaatgggg tctcgaggg gaccagaggc tgcagtga caaccactgg ggtcctgaca A cgtgatcgct cttgttccag gaagatgaac tcttcggat gcctgtctga ggaggtgggg tcctccgcc cactgactgt ggtatcctg tctgcgtcca ttgtcgtgg agtgcgtggc aatgggctgg tctgtggat gactgtctc cgtatggcac gcacggctc caccgtctgc ttctccacc tggcccttgc cgatttcag ctctcactg ctctgcccc tgccatgtac tatattgtct ccaggcagtg gctcctcga gactgggccc gcaaacctca catcacctt gtgttctcga gctactttgc cagtaactgc ctcttctgt tcatctctgt ggaccgttgc atctctgtcc tctacccctg ctgggcccctg aaccaccca ctgtgcagc ggcgagctgg ctggcccttg ggtgtggct ctggccgccc cgttgtgtct ctgcgcacct gaaattccgg acaaccagaa atgggaatgg ctgtacgcac tgtacttgg cgttcaactc tgacaatgag actgcccaga ttggattga aggggtcgtg gaggacaca ttataggac cattggccac ttcctgctgg gcttctggtg gcccttagca atcataggca cctgcgcca cctcatccgg gccaagctct tgcgggaggc ctgggtccat gccaaccgc ccaaggagct gctgctggtg ctggtgagcg ctttctttat cttctgttcc ccgtttaacg tgggtgtgtt ggtccatctg tgccgacggg tgatgctcaa ggaatctac caccgccga tctgtctcat cctccaggct agetttgct tgggctgtgt caacagcgc ctcaacccc tctctacgt cttcgttggc agagatttcc aagaaaagt tttccagtct ttgacttctg cctggcgag ggcgtttgga gagagaggat tctgtctatc ctgtccctg gccaacgccc cccgggaatg a MNGVSEGTG CSDRQPGVLT RDRCSRKN SSGCLSEEVG SLRPLTVVIL SASIIVGVLG P NGLVLMVTF RMARTVSTVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYITF VFLSYFASNC LLVFLSVDRCL ISVLYPVWAL NHTVQRASW LAFGWLLAA ALCSAHLKFR TTRKWNCGTH CYLAFNSDNE TAQIWIEGV EGHIGTIGH FLIGFLGPLA IIGTCAHLIR AKLLREGWVH ANRPKRLLV LVSAFFIWS PFNVLLVHL WRRVMLKEIY HPRMLLILQA SFALGCVNSS LNPFLYVFG RDRQKFFQS LTSALARAFG EEEFLSSCPR GNAPRE cagctccct cteccacct tgtctgccc tgcctcttgc tctagtctgt gtcaggagct A gactgcctcc agggctggaa tctgtgtct cctgtgtgcc cagagcccca cgatgtcgcc sapiens	Homo sapiens
485	160210	G Protein- Coupled	NM_004778	atgaatgggg tctcgaggg gaccagaggc tgcagtga caaccactgg ggtcctgaca A cgtgatcgct cttgttccag gaagatgaac tcttcggat gcctgtctga ggaggtgggg tcctccgcc cactgactgt ggtatcctg tctgcgtcca ttgtcgtgg agtgcgtggc aatgggctgg tctgtggat gactgtctc cgtatggcac gcacggctc caccgtctgc ttctccacc tggcccttgc cgatttcag ctctcactg ctctgcccc tgccatgtac tatattgtct ccaggcagtg gctcctcga gactgggccc gcaaacctca catcacctt gtgttctcga gctactttgc cagtaactgc ctcttctgt tcatctctgt ggaccgttgc atctctgtcc tctacccctg ctgggcccctg aaccaccca ctgtgcagc ggcgagctgg ctggcccttg ggtgtggct ctggccgccc cgttgtgtct ctgcgcacct gaaattccgg acaaccagaa atgggaatgg ctgtacgcac tgtacttgg cgttcaactc tgacaatgag actgcccaga ttggattga aggggtcgtg gaggacaca ttataggac cattggccac ttcctgctgg gcttctggtg gcccttagca atcataggca cctgcgcca cctcatccgg gccaagctct tgcgggaggc ctgggtccat gccaaccgc ccaaggagct gctgctggtg ctggtgagcg ctttctttat cttctgttcc ccgtttaacg tgggtgtgtt ggtccatctg tgccgacggg tgatgctcaa ggaatctac caccgccga tctgtctcat cctccaggct agetttgct tgggctgtgt caacagcgc ctcaacccc tctctacgt cttcgttggc agagatttcc aagaaaagt tttccagtct ttgacttctg cctggcgag ggcgtttgga gagagaggat tctgtctatc ctgtccctg gccaacgccc cccgggaatg a MNGVSEGTG CSDRQPGVLT RDRCSRKN SSGCLSEEVG SLRPLTVVIL SASIIVGVLG P NGLVLMVTF RMARTVSTVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYITF VFLSYFASNC LLVFLSVDRCL ISVLYPVWAL NHTVQRASW LAFGWLLAA ALCSAHLKFR TTRKWNCGTH CYLAFNSDNE TAQIWIEGV EGHIGTIGH FLIGFLGPLA IIGTCAHLIR AKLLREGWVH ANRPKRLLV LVSAFFIWS PFNVLLVHL WRRVMLKEIY HPRMLLILQA SFALGCVNSS LNPFLYVFG RDRQKFFQS LTSALARAFG EEEFLSSCPR GNAPRE cagctccct cteccacct tgtctgccc tgcctcttgc tctagtctgt gtcaggagct A gactgcctcc agggctggaa tctgtgtct cctgtgtgcc cagagcccca cgatgtcgcc sapiens	Homo sapiens

Receptor
GPR44
(CRTH2)

caacgccaca ctgaagccac tctgccccat cctggagcag atgagccgtc tccagagcca
cagcaaacac agcatccgct acatcgacca cgcggccctg ctgctgcacg ggctggcctc
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gggccccctg aaccgggcgc tgagcagcac ctgcggttag aaccgcgcgc acgtaggcgg
gcactcacac gcgaagtat caccagggtg cgcgggttca attcgatc cggactcctg
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agactctgaa tctttttcag aaacagttag ttaaacagt gcttctcaa ccttgatgtg
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cgaggccctg agtaacacaa agtgaaactc gtaatagact tcccactcta gggcagtgga
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gggggaagg gttttatgt aaaccatcca tgtatttttg gagaagagag aggaaggtt
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gctgtgtttg agctctgacg cccagggacc gaaaagtctg tgcataatgaa ttttgccttg
tggatgaaat gtcagtgga gaaagactt gagatcttg tctctgtgtt

486	160210 G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	MSANATLKPL CPPIEQMSRL QSHSNTSIRY IDHAAVLLHG LASLLGLVEN GVILFVVGCR P MRQTVVTTWV LHLALSLLA SASLPFFTYF LAVGHSWELG TTFCKLHSSI FFLNMFASGF LISAISLDRCLQVVRPWAQ NHRVAAAHK VCLIVLWALV LNTVPYFVER DTISRLDGR MCYNNVLLN PGPRDTCN SROAALAVSK FLIAFLVPLA IIASSHAAVS LRIQHRGRRR PGREVRLLVA VVAAFALCWG PYHVFSLLEA RAHANPGLRP LVMRGLPFVT SLAFFNSVAN PVLVVLTCPD MLRLRRSLR TVLESVIVDD SELGGAGSSR RRTSSTARS ASPLALCSRP EPRGRPARLL GWLLGSCAAS PQTGPLNRAL SSTSS	Homo sapiens
487	160212 G Protein-Coupled Receptor GPR52	NM_005684	atgaatgaat ccaggtggac tgaatggagg atcctgaaca tgagcagtg cattgtgaat A gggtccagc gtcactccg ccaacttggg tttggccact acagtgtggg ggaatgtctgc atcttcgaga cagtgttat tgtgttctg acatttctga ttattgtctg gaatctaaca gttatcttgc ccttctcatg tgcctccact ttacatcatt atactaccag ctatttccatt cagacgatgg catatgctga tcttttctgt tcttccagag tcaataaact gccgggtttt tggatatatc cttctccact actccacagg tgtccacagg tctctatggca tgccttgcct gcatcagtg ggaatgttat atctcagttc taaaagtgt tctctatggca tgccttgcct ccaatgggta ccocttgcct ctbgagaatt cttgcataa ccaagcctct tctctacaat caatgggta ccaatgggta ccocttgcct ctbgagaatt tgcaattatt tgatctggat ctactcctgc ctaatttct tgccttccct ttttggctgg gggaaacctg gttaccatgg tgacatttt gaatgggtg ccacgtcttg gctcaccagt gcttatatta ctggctttat tgttgcctta cttatgcct cgtctgcctt tgttgcctg tcaactact tccacatttt caaatgtgc cgtcagcaca caaagagat aatgaccga agagcccgat tccctagtca tgaggtgat tcttccagag agactggaca cagccctgac cgctgctacg ccatgtttt gttaggata accagtgtat ttatatgct gtggtcccc tatataattt acttcttct agaaagctcc cgggtcttgg acaatccaac tctgtccttc ttaacaacct ggcttgcat aagtaaatg ttttgaact ttgttaata cagcctctcc aacggcgttt tccggctagg cctccgaaga ctgttgaga caatgtgcac atcctgtatg tgtgtgaagg atcaggaagc acaagaacct aaactagga aacgggctaa tcttgcctcc attga	Homo sapiens
488	160212 G Protein-Coupled Receptor GPR52	NP_005675.1	MNESRWTEWR ILMSSGIVN ASERHSCPLG FGHYSVDVVC IFTTWIVILL TFLIAGNLT P VIFAFHCAPL LHHYTSYFI QTMAYADLFV GVSCLVPTLS LHYSTGVHE SLTCRVFGYI ISVLKSVSMA CLACISVDRI LAITKPLSYN QLVTPCLRI CILILIWYSC LIFLPSFFGW GKPGYHGDIF EWCATSWLTS AYTGFIVCL LYAPAAFWC FTYFHFIC RQHTKEINDR RARFPSHEVD SSRETHGSPD RRYAMVLFRI TSVFVMLWLP YIYFLLESS RVLDPNPTLSF LTTWLAVSNS FCNCVTYSLN NGVFRGLRR LFETMCTSCM CVKQEAQEP KPRKRANCS I	Homo sapiens
489	160217 G Protein-Coupled	NM_005683	atgagtcagc aaaaaccag tggggactgc ctgtttgacg gtgtcaacga gctgatgaaa A accctacagt ttgcagtcac catcccacc ttcgtcctgg gcctgctcct caacctgctg	Homo sapiens

Receptor GPR55	160217	G Protein- Coupled Receptor GPR55	NP_005674.1	gcatccatg gcttcagcac ctctcttaag aacaggtggc cagattatgc tgccacctcc atctacatga tcaacctggc agtctttgac ctgtgtgtgg tgctctccct cccattcaag atggtctctg cccaggtaca gtcccccttc cgtccctgt gaccctggt ggagtgctt tactctgtca gcatgtacgg aagcgtcttc accatctgt tcatcagcat ggaccggttc ttggccatcc gtatcccgct actggtgagc cactccggtc ccccgagaag atctttggga ctgcatgca caatctgggt ctggtgtgg accggaagca tccctatcta cagtttccat gggaagtgg aaaaatacat gtgcttccac aacatgtctg atgatactg gagcgccaag gtctcttcc cgtggaggt gtttggttc ctcttccca tgggcatcat gggcttctgc tgctccagga geatccacat cctgctgggc cgcagagacc acaccagga ctgggtgcag cagaaagcct gcatctacag catgcagcc agcctggctg tattcgtgtt ctcttcttc caggtccacc tgggttctt cctgcagttc ctggtgagaa acagctttat cgtagagtgc agagccaagc agagcatcag ctcttcttgc caattgtcca tgtgttttc caatgtcaac tgctgcctgg atgtttctg ctactactt gtcatacaag aattccgcat gaacatcagg gccaccggc ctccagggt ccagctggtc ctgcaggaca ccaagatctc ccggggctaa MSQNTSGDC LFDGVNELMK TLQFAVHIPT FVLGLLNL ATHGFSTFLK NRWPDYAATS P IYMINLAVFD LLLVLSLPFK MVLQVQSPF PSICTLVECL YFVSMYGSVF TICFISMDRF LAIRYPLLV HSGPPGRSLG SACTIWLVM RDHTQDWVQ QKACIYSIAA SLAVFVVSFL VFPELEVFG LLPNGIMGFC CSRSIHILLG RRDHTQDWVQ QKACIYSIAA SLAVFVVSFL PVHLGFFLQF LVNRNSFIVEC RAKQSISSFL QLSMCFSNVN CCLDVFCYYF VIKFRMNIR AHRPSRVQLV LQDTTISR	Homo sapiens
Receptor GPR55	160219	G Protein- Coupled Receptor GPR35	NM_005301	atgaatggca cctacaacac ctgtggtctc agogacctca cctggcccc agogatcaag A ctgggtctt acgctactt gggcgtcctg ctgtgtctag gctgtgtgt caacagcctg gogctctggg tgttctgtg cgcgatgcag cagtggacgg agaccgcgat ctacatgacc aacctggcgg tggcgcacct ctgctgtctg tgacacttgc cctctgtgt geactccctg cagacacact cagacacgcc gctgtgccag ctctcccaag gcatctacct gaccaacagg tacatgagca tcagcctggt cagggccatc gcctgtgacc gctatgtggc cgtgcggcac ccgctgctg cccgggggt cgggtcccc aggcaggctg cggcctgtgt cgggtctctc tgggtgctgg tcatcggtc cctggtggt cgtgggtcc tggggattca ggaggcggc ttctgcttca ggagcaccgg gcacaatttc aactccatgc ggttcccgct cgtgggattc tacctgcccc tggcgtggt ggtcttctgc tccctgaagg tggtagactc cctggccccg aggccaccca ccgactggg gcaggcagag gccaccgca agcctgccc catggtctgg gccaaacctc tgggttctgt ggtctgttc ctgccccgc acgtggggt gacagtgcgc ctcgagtg gctggaacgc ctgtgacctc ctggagacga tccgtgcgcg cctgtacata accagcaagc tctcagatgc caactgctgc ctggacgcca tctgtacta ctacatggcc aaggagtcc aggaggcgtc tgaactggcc gtggtcccc gtgctaaggc ccacaaaagc caggactctc tgtcgtgac cctgcctaa MNGYNTCS SDLTWPPAIK LGFYAYLGV LVLGLLNSL ALWVCCRMQ QWTETRIYMT P NLAVADLCLL CTFPLVHSL RDTSDTPLCQ LSQIYLTNR YMSISLVTAI AVDRYAVVRH PLRARGLRSP RQAARVCAVL WVLVIGSLVA RWLLGIQEGG FCFRSTRHNF NSMRPPLLGF YLPLAVVWFC SLKVVTAQA RPPTDVQAE ATRKAARMG ANLIVFVVCF LPLHVGLTVR LAVGNACAL LETIRRALYI TSKLSDANCC LDAICYMYA KEFQASALA VAPRAKAHKS	Homo sapiens

493	160221	G Protein- Coupled Receptor GPR27	NM_018971	QDSLCVTLA	atggcgaaacg cgaagcgagcc gggtggcagc ggcgggcgcg aggcggcgcc cctggggccctc A	Homo sapiens
					aagctggcca cgtcagcct gctgctgtgc gtgagccctag cgggcaacgt gctgttcgcg	
					ctgctgacg tgcgggagcg cagcctgcac cgcgcgcgt actacctgct gctcgacctg	
					tgctggccg cggggtcgcg cgcgtctgcc tgcctcccg ccgtcatgct ggcggcgcg	
					cgtggcgcg cgcggcgcg ggcgcgcgcg tgcggcgcg cgtgcaagct gctgccttc	
					ctggccgcgc tctctgctt ccacgcgcgc ttcctgctgc tggcggtggg cgtcacccgc	
					tacctggcca tgcgcacca cegcttctat gtagagcgcc tggcgggctg gcggtgcgc	
					gcatgctgg tgtggcgcg ctagggcgctg ggctggcgcg cggccttccc gccagtgcg	
					gacggcggtg ggcagcagca ggcgcgcgc tgcgcctcg agcagcgcc cgcggcgcc	
					ccggcgcg cgggcttct tgcgtctgct ggcgtgggtg tggcgcgcc gacctcgtc	
					tacctcgcc tgccttctt cctccacgac ggcgcgaaga tgcggcgcc ggcctgggtg	
					ccgcgcgtca gccagactg cactttccac ggccggcg cgccttggtg ggcggcgcc	
					aactggacg cgggcttcg ccggggcgcc acgcgcgcg cgtttgtgg catccggccc	
					gcaggcgcg gcgcggcg cgcgcgcctc ctgctgctgg aagaattcaa gacggagaag	
					aggtgtgca agatgttcta cgcgtcacg ctgctcttc tgcctctctg ggggcctac	
					gtcgtggcca gctacctgc ggtcctgggt gcggcgcg cgttccccc ggctacctg	
					acggcctccg tgtggctgac ctgcgcgag gcggcatca acccgtcgt gtcttcttc	
					ttcaacagg agctgaggga ctgcttcagg gccagttcc cctgctgcca ggcggcgccg	
					accacccagg cgaccatcc ctgcgacctg aaaggcattg gtttatga	
494	160221	G Protein- Coupled Receptor GPR27	NP_061844.1	MANASEPGS	MANASEPGS GGGAAAIAGL KIATLSLLC VSLAGNVLEA LITVRSLSH RPYVLLLDL P	Homo sapiens
				CLADGIRALA	CLADGIRALA CLPAVMLAAR RAAAAGAPP GALCKLLAF LAALFCFHAA FLILGVGVR	
				YLAIAHHRFY	YLAIAHHRFY AERLAGWPCA AMLVCAAWAL ALAAAFPVL DGGDDDEDAP CALEQRPDGA	
				PGALGFLILL	PGALGFLILL AVVVGATHLV YLRLLFFIHD RRMKRPARLV PAVSHDWTFF GPGATGQAAA	
				NWTAGFGRGP	NWTAGFGRGP TPPALVGIKP AGPGRGARRL LVLEEFKTEK RLCKMFYAVT LFLILLMGPY	
				VVASYLRLV	VVASYLRLV RPGAVPQAYL TASVWLTFAQ AGINPVVCFI FNRRLDCFR AQFPCCQSPR	
				TTQATHPCDL	TTQATHPCDL KGIGL	
495	160222	G Protein- Coupled Receptor GPR72	NM_016540		atgggccctc acccttgcgt gctctgtctc ctcccttgg tgcgagccac cgagcccccac A	Homo sapiens
					gagggccggg ccgacgagca ggcgcggag gcggccctgg cegtgcctca tgcctcgccac	
					ttcttctctt ggaacaacta cacttctcc gactggcaga actttgtggg caggaggcg	
					tacggcgctg agtccagaa cccacgggtg aaagccctgc tcaattgtgc ttaactcttc	
					atcattgtct tctactctt tggcaacgtc ctgctctgtc atgtcatctt caagaaccag	
					cgaatgcact cggccaccag cctcttcac gtcaacctgg cagttgccga cataatgatc	
					acgtgctca acacccctt cactttggtt cgttttgtga acagcacatg gataattggg	
					aagggcattg gccatgicag cgcctttgcc cagtactgct cactgcacgt ctacgacatg	
					acactgacag ccattgcgtt ggatgccac cagttcatca tgcacccctt gaaaccccg	
					atctcaatca caaagggtgt catctacatc gctgtcatct ggaccatggc tacgttcttt	
					tcaactccac atgctatctg ccagaaatta tttaacttca aatacagtga ggacattgtg	
					cgtccctct gctgcccaga ctccctgag ccagctgacc tctctggaa gtacctggac	
					ttggccacct tcatctctgt ctacatctctg ccctctctca tcatctctgt ggcctacgct	

Homo sapiens

496 160222 G Protein-Coupled Receptor GPR72 NP_057624.1
 MVPHLLLLCL LPLVRATEPH EGRADEQSAE AALAVPNASH FFSWNNYTFSDMQNFVGRRR P
 YGAESQNPV KALLIVAYSF IIVSFLEGNV LVCHVIFKNQ RMHSATSLFI VNLAVADIMI
 TLLNTPFTLV REFNVSTWIFG KGMCHVSREA QYCSLHVSAL TLTAIAVDRH QVIMHPLKPR
 ISITKGVII AVIWTMTATF SLPHACIQKL FTFKYSIEDIV RSICLPDFPE PADLEFWKYLD
 LATFILLIYI PLIIISVAYA RVAKKLWLCN MIGDVTTEQY FALRRKKKT IKMLMLVVVL
 FALCWFPINC VYLLLSKVI RTNNALYFAF HWFAMSSTCY NPFIYCWINE NFRIELKALL
 SMCQRPKPQ EDGQSPVPS FRVAWTEKND GQRAPLANNL LPTSQSQSGK TDLSSVEPIV
 TMS

Homo sapiens

497 160223 G Protein-Coupled Receptor G2A NM_013345
 GGGAGGGGTG CGAGGCTAGC CAGCAGGCG GGGCCCTGGG TCATTTTAAA CTCTCAGAGT A
 GAACGTCTTG ATAGGACCGA CAAGACGCAT GACATGTACT TAGATAGCTT ATCTTAGAGC
 CACACTGAGA TTGGAACCCG CAAATATGC CAGGGAGGAA GGTGAGCAAG GGACACGACA
 CTCACCCGGA TAAACCCAA CAGCGAGCG AGGCTGTGGG GAAACCCGAN CCTGCAAC
 CGCCGGGGGA AGGTGGCCN CGCCACCAC CGTGGAGAA CAGCGCGGAN GCACCCCACG
 AGATGAGACG GAACGCGGT GAGATCCAGC AATNCCNACT GTGGGTCTGA CCCAGGATAN
 CGGAAAGCAG GGAAGTGAA CAGCTCTCTC ATGTTCTTGA CACCGTCATT CTCAGCAGCT
 CAGTAAAGG ACAGAGGCA CAGCGCTCT GTCAGCAGAG TCGTGGCTGA GCAGAACACG
 CCACACGCA CAGCCACAC GCAACACGTG CAGGATTGCT CAAGATGGAA GGGCACAGTG
 GAATATATAT ATATATTAT ATTTTGGCG AGACCCCTGA GGACACACTG AATACAATGG
 AATACCATCC CGCTTTGAA AGGAAGGGA ATCTGGCAC ACGTGCAAC AGGAGGGAGC
 TTGAGGACAC TGTGTTGAGT GGAGCACGTG AGACACGGAA GGACACACG TGAAGACACG
 CAGAGATGCC CACCCACGTG GGGAGGTGAC AGGGGAGCCC AGCGCACAGA GACAAAGTGG
 AATGGAGGCC TGGGGGCTGG GAGCAATGC GAGCGAGTG CTCTCTGGG CAGAGTCTCC
 GTTGTGGGAA AGGAGAGGT TCTGCCGACG ATGCTGTGCG ATGCTGTGCG AAGAATGTGA
 ATGTGCCCCA TGCTACTGAA AACGGTTAC AATGGAAACG CCCCCCAGT GACCACTACT
 GCCCCGTGG CCTCCTGGG CCTCTCCGC AGACCTGCA ACAACGTGTC CTCGAGAG

498	160223	G Protein- Coupled Receptor G2A	NP_037477.1	<p>agcaggatag tccgtgctcg ggtgtacagc gcggtgtgca cgtggtgggt gccggccaac tgctgactg cgtggctggc gctgtgcag gtaactgcag gcaactgtct gccgtctac ctgctctgc tggcactctg cagactctg tacacaggca cgtgccact ctgggtcacc tatatccgca accagcacg ctggacccta gctgtctgg cctgcaaggt gaccgcctac atcttctctt gcaacatcta cgtcagcact ccttctctgt gctgcatctc ctgagaccg ttcgtggccg tgggttacgc gctggagagt cggggccgcg gccgcccagg gaccgccatc ctcatctcg cctgcatctt catctctgct gggatcgctt actaccgggt gttccagagc gaagacaagg agactgctt tgacatgctg cagatggaca gcaggattgc cgggtactac tagccagggt taaccgttgg ctttgccatc cctctctcca tcatcgctt caccacccac cggattttca ggagcatcaa gcagagcatg ggtttaagcg ctggccagaa ggccaagggtg aagcactcgg ccactcgggt ggtgtctatc tcttagtct gcttcgccc gtaccacctg gttctctcgt tcaagccgcg tgccttttcc tactacagag gagacaggaa cgcctatgtc ggcttgagg aaagcctgta cacagcctct ggtgtgttcc tgtgctgtc caggtgaac ggcgtggctg acccattat ctactgctg gccacggacc attcccgcga agaagtgtcc agaatccata aggggtggaa agagtgttcc atgaagacag acgtcaccag gtcacccac agcagggaca ccgaggagct gcagtcgccc gtggccttg cagaccacta cacttctcc aggccctgc acccaccagg gtcaccatgc cctgcaaga ggtgattga ggagtcctgc tgagcccat ggtggcagg gggatggcag gttgggggtc ctggggccag caatgtggtt cctgtgact gagccacca gccacagtgc ccatgtcccc tctggaagac aaactacca tttctcgtc ctgaagccac tccctcctg accactggcc ccangcttcc ccacatggaa ggtggctgca tgccaagggt aagagcgaca cctccaggct tccgggagcc canagagcat gtggcangca gtggggctc tctatcatca nctgctctg ctgggtccct tggctgtggg cangtacacc cctgctggca gaagtacctg gtggctgccc tgttcgcatc agtggcagatg actttattg cggagcattt ctgcaagcgt tgcctggatg cgtgtgtgca ttgtgggccc tctgggctcc tgcctcaaaa tgtcagttag caccatgctg gaagtcacca tcatgtggc agcggccagg aaggcatagg gcancctacc acctccaang gggcangcgc cctcatctgg ggttgggt</p>	Homo sapiens
499	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NM_004767	<p>MCNMLKNGY NGNATPVTTT APWASLGLSA KTCNNVSFEE SRIVLVVYS AVCTLGV/PAN P CLTAWLALLQ VLOGNVLAIV LCLALCELL YTGTLPLWVI YIRNQHRTL GLLACKVTAY IFFCNIVYSI LFLCCISCDR FVAVVVALES RGRRRRTAI LISACIFILV GIVHYPVFQT EDKETCFDML QMDSRIAGY YARFTVGFAI PLSIIAFTNH RIFRSIKOSM GLSAAQKAKV KHSIAIAVVI FLVCFAPYHL VLLVKAASF YRGRDNAMC GLEERLYTAS VFCLCLSTVN GVADPIIYVL ATDHSRQEVLS RPVHPPGSPC PAKRLIEESC cgggtacagg gggcccaaga cgtgggctgg ctgtctcctg ctcaccagc catcggtgg A ctgtggccc tgggtgtctc tctgtctgtg atttgtgtg tggggctaag cagggtctct gggggtgccc cctgtcacct gggcaggcac agagccgaga cccaggaga gcagagccga tccaagagg gccaccgaga tgaggaggcc aaggcgctgc agcagtatgt gcctgaggag tggcgaggat accccggcc cattcacct gctggcctgc agccaccaa gcccttgggtg gccaccagcc ctacccccga caaggatggg ggcacccccc agagtgggca ggaactgagg ggcaatctga caggggcacc agggcagagg ctacagatcc agaaccctt gtatccggtg</p>	Homo sapiens

500	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NP_004758.1	<p>accgagagct cctacagtg cctatgccat atgcttcttg cgctggtggt gtttgcggtg ggcattgtg gcaacctgtc ggtcatgtgc atcgtgtggc acagctacta cctgaagagc gcttgaact ccatcttgc cagcctggc cctctggatt tctgtgtcct cttttctgc ctccctattg tcatcttcaa cgagatcacc aagcagagtc tactgggtga cgtttctgtg cgtgccgtgc ccttcatgga ggtctcctct ctgggagtgca cgactttcag cctctgtgcc ctgggcatg accgttcca cgtggccacc agcacctgc ccaagtgag gcccatcgag cgttgccaat ccatcctggc caagtggct gtcactggg tgggtccat gaogctggct gtgctgagc tctgtgtg gcagctggca caggagcctg cccccaccat gggcacctg gactcatgca tcatgaaacc ctacgccag ctgcccagat cctgtattc actggtgatg acctaccaga acgcccgcct gtggtgttac ttggctgct acttctgct gcccatctc ttcacagtca cctgccagct ggtgacatgg cgggtgcgag gccctccag gaggaagtca gagtgcagg ccagcaagca cgagcagtg gagagccag tcaacagcac cgtggtggc ctgaccgtg tctacgcct ctgacccctc ccagagaacg tctgcaacat cgtggtggc tacctctcca cagagctgac ccgccagacc ctggacctcc tggccctcat caaccagtc tccaccttct tcaagggcgc catcacccca gtgctgctc ttgcatctg caggccgctg ggccaggcct tctggactg ctgctgctgc tctgtgtg aggagtgcg cggggtctg gaggcctctg ctgccaatg gtgggacaac agctcaaga ccgaggtgtc cttctccatc tacttccaca agccaggga gtcaccccca ctcctggccc tgggacacac ttgctgaggc ccagtaggg gtggggagg agggagagc cgcaccccc gccggtgtct gctgttctt ccccatagt cttgtttgt tgcctgtct gctgtctag gatggactg gttcctctg tcaaggttg ggaatccg</p>	Homo sapiens
501	160225	Sphingolipid Receptor Edg6	NM_003775	<p>gagtcagccc ccgggggagg ccatgaacgc caggggacc ccggtggccc ccgagtcctg A ccaacagctg gcggccggcg ggcacagccg gctcattgtt ctgcactaca accactcggg ccggctggcc ggccgaggga ggccggagga tggcgccctg gggccctgc ggggctgtc ggtggccgc agctgcctg tggctctgga gaacttgctg gtgctggcg ccatcacag ccacatgagg tgcgacgt ggtctacta ttgcttggtg aacatcacgc tgagtacat gctcacgggc gcggctacc tggccaacgt gctgctgtc gggggccgca ccttccgtct ggcgccgcgc cagtgttcc tacgggaggg cctgctctc accgccctg cgcctccac cttcagcctg ctttcaactg cagggagcg ctttgcacc atggtgcggc cgggtggcga gagcggggcc accaagacca gcgcgtcta cggcttcta cggctctgct ggtgtggc cgcgtgctg gggatgctg ctttctggtg ctggaatgc ctgtgcgct ttgaccgctg ctccagcctt ctgcccctct actccaagg ctacatctc ttctgcctg tgatctcgc</p>	Homo sapiens

502	160225	Sphingolipid Receptor Edg6	NP_003766.1	<p> cggcgctctg gccaccatca tgggcctcta tggggcccatc ttccgcctcg tgcaggccag cgggcagaag gccccacgcc cagcgcccg cgcgaagcc cgcgcctgc tgaagacggt gctgatgac ctgctggcct tectggtgtg ctggggccca ctcttcgggc tgcgtctggc cgacgtcttt ggtcccaacc tctgggcccc gagtacctg cggggcatgg actggatcct ggccctggcc gtcctcaact cggcggtcaa cccatcatc tactcctcc gcagcaggga ggtgtgcaga gcgltgctca gcttctctg ctgcggtgtg ctccggctgg gcctgcgagg gcccggggac tgcctggccc gggccgtcga ggtccactcc ggagcttcca ccaccgacag ctctctgagg ccaagggaca gcttccgcg gctccgctcg ctacgcttcc ggatcgggga gcccctgtcc agcatctcca gctgcgagg catctgaagt tgcagtcttg cgtgtggatg gtcagaccac cgggtgcgtg ccaggcaggc cctcctgggg tacaggaaag tgtgtgcacg cagcctcgcc tgtatgggga gcagggaacg ggacaggccc ccatggtctt cccggtggcc tctcggggct tctgacgcca aatgggcttc ccatggtcac cctggacaag gaggtaacca ccccacctcc cgtaggagc agagagcacc ctggtgtggg ggcgagtggg tcccacaac ccgcttctg tgtgattctg gggaagtcct ggcctctc tgggcctcag tagggctccc aggctgcaag ggtggactg tgggatgcat gccctggcaa cattgaagt cgtatcgtgt aaaaa </p>	Homo sapiens
503	160228	T-Cell Death- Associated Gene 8 (GPR65)	NM_003608	<p> atgaacagca catgtattga agaacagcat gacctggatc actatttgtt tcccatgtt A tacatctttg tgattatagt cagcattcca gcaatattg gatctctgtg tgtgtctttc ctgcaaccca agaaggaaag tgaactagga attacctct teagtttgtc actatcagat ttactctatg cattaactct cctttatgg attgattata ctggaataa agacaactgg actttctctc ctgcttctg caaaggagat gcttttctca tgtacatgaa gttttacagc agcacagcat tctcacctg cattgccgtt gatcggtatt tggctgttgt ctaccctttg aagttttttt tctaaggac aagaagaatt gactcatgg tccgctgtc catctggata ttggaaacca tcttcaatgc tgtcatgttg tgggaagatg aaacagttgt tgaatattgc gatgcgaaa agtctaattt tactttatgc tatgacaaat accctttaga gaaatggcaa atcaacctca actgttccag gactgtaca ggcattgcaa tacccttgtt caccatcctg atctgtaacc gaaaagctca ccaagctgtg cgcacaata aagccacgga aacaaggaa aagaagagaa tcataaaact actgtcagc atcacagta cttttgtctt atgctttact cccttctatg tgaattgtct gatctgtc atttagagc atgtgtgaa ctgcgaagac cacagcaatt ctgggaagcg aactacaca atgtatagaa tcacggttgc attaacaagt ttaaattgtg ttgctgatcc aattctgtac tgttttgtta ccgaacacag aagatatgat atgtggaata tattaataat ctgcactggg aggtgtgata catcacaag acaagaaaa cgcatacttt ctgtgtctac aaagatact atggaattag aggtccttga gtag </p>	Homo sapiens

504	160228	T-Cell Death- Associated Gene 8 (GPR65)	NP_003599.1	MNSTCIEEQH DLPHLFPPIV YTFVLIIVSIP ANIGSLCVSF LQPKKESELG IYLFSLSLSD P LLYALTPLW IDTWKNDNW TSPALCKGS AFMYMKFYS STAFLTCAV DRYLAVVYPL KFFFLRTRRI ALMVSLSIWI LETIFNAVML WEDETVEYC DAEKSNFTLC YDKYPLEKWQ INLNLFTCT GYAIPLVITL ICNRKVQAV RNRKATENKE KHRRIKLLVS ITVTFVLCFT PFVWMLLIRC ILEHAVNFED HNSNGKRTYT MYRITVALTS LNCVADPILY CFTTETGRYD MWNILKFC TG RCNLSQQRG RILSVSTKDT MELEVLE	Homo sapiens
505	160300	Encephalopsi n	NM_014322	cgagcccccgc cgaagctga cgcgctccgc cgcgcaggcg cgcgcggcgc gggccatgta A ctcggggaac cgcagcggcg gccacggcta ctgggacggc ggcggggcgc cgggcgctga gggcccggcg cgcgcgggga cactgagccc cgcgcgcctc ttcagccccc gcacctacga ggcctggcg ctgctgctgg gctccattgg gctgctggcg gtcggcaaca acctgctggg gctgctcctc tactacaagt tccagcggct cgcactccc actcactcc tctggtgtaa catcagcctc agcagcctgc tgggtgctcct ctgcgggggc accttacct tctgtcctc cctgagggaac ggcggggtgt gggacacccg ggcctgctgg tgggacgggt ttagcggcag cctctcggg attgtttcca ttgccaccct aaccgtgctg gcctatgaac gttacatctg cgtggtccat gccagagtga tcaatttttc ctgggcctgg agggccatta cctacatctg gctctactca ctggcgtggg caggagcacc tctcctggga tggaaacagg acatcctgga cgtacacgga ctaggctgca ctgtggactg gaaatccaa gatgccaaac attcctcctt tgtgcttttc ttatttcttg gctgctgggt ggtgccccgt ggtgctcatg cccattgcta tggccatatt ctatatccca ttcgaaatgct tctgtgtgtg gaagatcttc agacaattta agtgtcaag attttaaaat atgaaaagaa actggccaaa atgtgctttt taatgatatt caccttctctg gtctgttggg tgccttatat cgtgatctgc tcttggtggg ttaattggtca tggtaacctg gtaactccaa caatatctat tgttttgtac ctcttgcta aatcgaacac tgtatacaat ccagtgattt atgtcttcac gatcagaaag tttcgaagat cctttttgca gcttctgtgc ctccgactgc tgaggtgcca gaggcctgct aagacacctac cagcagctgg aagtgaatg cagatcagac ccattgtgat gtcacagaaa gatggggaca ggcacaaaga aaaagtgact ttaactctt ctctcatcat ttttatcatc accagtgatg aatcactgtc agttgacgac agcgacaaaa ccattgggggt ccaagtttg atgttaatcc aagttcgtcc ttttaggaa tgaagatgg caacgaaagg tggggcctta aatggatgc cacttttggg ctttcatcat cctcctgaag aagaagtgtc tggaaatccc gttctatgta atacaacag aaccttgtgg tccagcagga aatccgaatt gccatatgc tcttgggcct caggaagagg ttgaacaaaa acaaatctt ttaattcaac ggtgtgctta cataatgaaa aaaccacttg tgcacacgat gggcatctaa catcatcatc tctaatgtg ttggagattt tcaattcaaa tatattttt aaattactct attttccaaa acagtaatg cattttctc gaaaatacct tactgtaaaa ataactgtcg cgtacacatg tctgaagtat tagaacata ctgaattttt ttgtactgt tggactctat tcaagtctat gtcctatctc tgatcaagtt atcaaggaga taattctaga atgaaaaaga aaatcctctt gttggaaca aaagacgttt tatatgtgca gtatgacaaa gaggagtctc agagacaaat ttgaatcctt gtcagcctgg agaccagcac cagaggaaac tacaaggcaa actccatat atttcttcc cccaaattgc tgccttaca gactcaaaag tcttttctt ttctttgttg ttctctaaa aattactgt tcttgtcga tgctataaa gccaggagat tctaagacgc cagctcttg agattgtctc attcccctgt atttccaca tatatatatt atataccgc taataaattt atgtttgtt taaaaaaa	Homo sapiens

506	160300	Encephalopsi n	NP_055137.1	MYSGNRSGGH LVLVLYYKFQ GSLFGIVSIA LDVHGLGCTV IQVIKILKYE NTVYNPVIYV KKKVTFNSSS	GYWDGGAAG RLRTPHLL TLTVLAYERY DWKSKDANDS KKLAKMCFIM FMIRKFRSL IIFIITSDES	AEGPAPAGTL VNISDLLV IRVHARVIN SFVLFLGC IFTFLVWMP LQLCLRLR LSVDDSKTI	SPAPLFSPGT SFLGVFTTFV FSWAWRAITY LVVPLVIAH YIVICFLVN GHGLVPTPI AGSEMQRIRPI GVQSIMLIQV	YERLALLLGS SCLRNGWWD IWLYSLAWAG CYGHILYSIR GHGLVPTPI SIVSYLPAKS VMSQKDGDRP RPL	IGLLGVGNL P TVGCVWDGFS APLLGNRYI MLRCVEDLQT SIVSYLPAKS VMSQKDGDRP	Homo sapiens
507	160312	Sphingolipid Receptor Edg5	NM_004230	atgggcagct accaaggaga gtcatcctct aacagcaagt ctggcaggcg acgcctgtgc ttcagcctcc ggcagcgaca gtccctgggt actgtcctgc atcctgttgg gtgacatgg gtctttatcg gtccactcct tccctgtctc cgcccgctgc ccggggcacc cccacgtcac	tgtaactcga cgctggaac gttgcccat tccactcgc tggccttcgt agtgtttgc tggccatcgc agagctgcc gactgcccc ctctctacgc ccatgtggc ccgccccgca tctgtggct gcccgatcct accocgtcat agtgtggcg acctcctgcc ccaggtttct	gtactgaac gcaggagacg tgtgtggaa aatgtacctg agccaatacc cgggagggc catgagcgc catgttctg cctgtgctgg cctgtgctgg caagcattat cctgtacgtg gacgtagcc gcccgccttc ctacaaagcc ctacacgtgg gcccgggggtg actccgcagc ggagggaac	cccccaagg acctccgcg aggttctgg ttctgggca ttgtctctg tcgtctcca cacgtggcca ctcatcggtg aactgctgg gtgtgtgctg cgatctact cgtctcaaga agcactctcc tctcgactcc cactactttt cgcgcgtctc acctggaat acctgcggtg gggtgcaag tccagctccc ga	ctataaattat ggccttcac tgtctattgc acctggccg ctctgtctg ggcactcga ctctcccat tggtagacct cgtgtgctcc cggtggtccg cgtcaccat tctcgacta tgcctgtccc tcgcgtctc ggaggtgctt gagcgaggcg gggtgcaag tggagaggcg catgcacatg	ctataaattat ggccttcac tgtctattgc acctggccg ctctgtctg ggcactcga ctctcccat tggtagacct cgtgtgctcc cggtggtccg cgtcaccat tctcgacta tgcctgtccc tcgcgtctc ggaggtgctt gagcgaggcg gggtgcaag tggagaggcg catgcacatg	Homo sapiens
508	160312	Sphingolipid Receptor Edg5	NP_004221.1	MGSLYSEYLN NSKFHSAMYL FSLLAIAIER TVLPLYAKHY VFIVCVLPAP RPLQCWRPGV	PNKVQEHYNY FLGNLAASDL HVAIAKVKLY VLCVVTIFSI SILLIDYACP GVQGRRRVGT	TKETLETQET LAGVAFVANT GSDKSCRMIL ILLAIVAIYV VHSCPILYKA PGHLLPLRS	TSRQVASAFI LLSGSVTLRL LIGASWLISL RIYCVVRSSH HYFFAVSTLN SSSLERGMHM	TPVQWFAREG VLGGPILGW ADMAAPQTLA SLINPVIYTW PTSPTFLEGN TVV	SASITLSASV NCLGHLEACS LLKTVTIVLG RSRDLRREVL TVV	Homo sapiens
509	160314	G Protein-Coupled Receptor GPR103	AF411117	atgatctgct ggcattgtat gcccactgcg acagcaatgc aacctgacgc gagctgccgg gcactctttg gtcaccaca	gcagtgctct tagcaaaactc ggggaatatgt agggcgcttaa gggagcaggtt gacgcgcaaa gcaatgtctct tctttatctg	gagcctagg atactactac taggcgctg cattaccccc cctgcgtctg gtggccctc gtgtccactc gtgtgtctac ctccttggcg	attcatcttt acgacacgta cctgcggtg gcccgcgctc gagcagttct tacgggtcgc gtgtccaccg gtgtgtctac gtgtgtgacc ctcagtgacc	tagcctgact ctacgttgtta ccgggagcgc gcccgcgctc gagcagttct gacggctcgt gtgtgtctat gtgtgtgacc tgcctcatc	ctacgttgtta ccgggagcgc gcccgcgctc gagcagttct gacggctcgt gtgtgtctat gtgtgtgacc ctcagtgacc tgcctcatc	Homo sapiens

510	160314	G Protein-Coupled Receptor GPR103	ENSMPT2217 53	<p>atccccgtca ccattgtcca gaacatttcc gacaactggc tgggggggtgc tttcatttgc</p> <p>aagatgggtgc catttgtcca gttaccgct gttgtgacag aaatcctcac tatgacctgc</p> <p>attgctgtgg aaaggcacca gggacttgtg catcctttta aaatgaagtg gcaatacacc</p> <p>aaccgaaggg ctttcacaat gctagggtg gttcggctgg tggcagtcac cgtaggatca</p> <p>cccatgtggc acgtgcaaca acttgagatc aaatatga tctatatga aaaggaaacac</p> <p>atctgtgct tagaagagtg gaccagccct gtgcaccaga agatctacac caccttcac</p> <p>ctgtcatcct cttcctcctg cctcttatgg aagaagaaac gagctgtcat tatgatgggt</p> <p>acagtgggtg cttcttttgc tgtgtgctgg gcaccattcc atgtgtcca tatgatgatt</p> <p>gaatacagta attttgaaaa ggaatatgat gatgtcaca tcaagatgat ttttgcctac</p> <p>gtgcaaatga ttggattttc caactccatc tghtaatcca ttgtctatgc atttatgaat</p> <p>gaaaacttca aaaaaaatgt tttgtctgca gtttgttatt gcatagtata taaaaccttc</p> <p>tctccagcac aaaggcatgg aaattcagga attacaatga tgcggaagaa agcaaaagttt</p> <p>tccctcagag agaattccagt ggaggaaaac aaaggagaag cattcagtga tggcaacatt</p> <p>gaagtcaaat tgtgtgaaca gacagaggag aagaaaaagc tcaaacgaca tcttgctctc</p> <p>tttaggtctg aactggctga gaattctcct tttagacagt ggcattaa</p> <p>RVGDGSLRT IHGKEMSKIA RKKRAVIMM VTFVLFLL PLMVLLIYS KIGYELWIKK P</p> <p>DDVTIKMIFA IVQIIGFSNS ICNPIVYAFM NENFKKNVLS AVCYCIVNKT FSPAQRHGNS</p> <p>GITMRRKKAK FSLRNPVEE TKGEAFSDGN IEVKICEQTE EKKKLKRHLA LFRSELAENS</p> <p>PLDSG</p>	Homo sapiens
511	160317	Neuropeptide FF 2 Receptor	NM_004885	<p>ctcggagcca agtaatgggt atactgatgc ttccttttct ttgccgcgt cggattctga A</p> <p>gtttcacaaag aatgtacctg ggtgccctt agcgggatat gaatagcttc ttcggaaccc</p> <p>cagcggccag ctggtgcctc ctggaaaagt acgtctcatc tgcaccggac aaggaggcgg</p> <p>ggaggggagc cagagcactc agcgtccagc agcgcggcgg gccagcctgg agcggaaagcc</p> <p>tggagtggag caggcagtc cggggggaca gacgtcggct gggattgagc cggcagactg</p> <p>cgaaaaagtag ctggagccgg agcagggaca gaacctgttg ctgcagacgg gcttgggtga</p> <p>ttctggttcc tgcgcgcgac agggctcgcc gggagagggt catcatgaat gagaaatggg</p> <p>acacaaactc ttcagaaaaa tggcatccca tctggaatgt caatgacaca aagcatcatc</p> <p>tgtactcaga tattaatatt acctatgtga actactatct tcaccagcct caagtggcag</p> <p>caatcttcat tatttctac tttctgatct tctttttgtg catgatggga aatactgtgg</p> <p>tttgctttat tgaatgagg aacaaacata tgcacacagt cactaatctc ttcactctaa</p> <p>acctggccat aagtattta ctagtggca tattctgcat gctataaca ctgctggaca</p> <p>atattatagc aggatggcca ttggaaaaa cagatgtgcaa gatcagtga ttggtccagg</p> <p>gaatatctgt cgcagcttca gtctttacgt tagttgcaat tgcgttagat aggttccagt</p> <p>gtgtgtgcta cctttttaa ccaagctca ctatcaagac agcgtttgtc attattatga</p> <p>tcatctgggt cctagccatc accattatgt ctcactctgc agtaattgta catgtgcaag</p> <p>aagaaaaata ttaccgagtg agactcaact ccagaaataa aaccagtcca gtctactggt</p> <p>gccgggaaga ctggccaaat caggaaaatga ggaagatcta caccactgtg ctgttttgcca</p> <p>acatctacct ggctccctc tccctcattg tcatcatgta tggaaaggatt ggaatttcac</p> <p>tcttcagggc tgcagttcct cacacaggca ggagcagtg cactgtggtg</p> <p>ccaggaaaaa gcagaagatc attaaagatgc tctgtattgt ggcctgctt tttattctct</p>	Homo sapiens

Accession	Protein	Gene	Species	Sequence
512	160317 Neurotrophin-4 FF 2 Receptor	NF_004876.1	Homo sapiens	catggctgcc cctgtggact ctaatgatgc tctcagacta cgtgacactt tctccaaatg aactgcagat catcaacatc tacatctacc cttttgcaca ctggctggca ttcggcaaca gcagtgtaa tccatcattc tatggtttct tcaacagaga tttccgcgtt ggtttccaa aagctttcca gctccagctc tgcacacaaa gagcaagcc tatggaagct tacccttaa aagctaaaaa ccatgtgtc ttaaacacat ctaatcagct tgtccaggaa tctacattc aaaaccctca tggggaaacc ttgctttata ggaagaagtc tgaacaccc caacaggatc tagtgatgga agaattaaaa gaaactacta acagcagtg gatttaaaaa gagctagtgt gataatccta actctactac gattatata tttaaatcca ttgctttttg ttgcttttga cttcaaatat tccaagaat gtcttaata aacattttac tgaagccctt ctctggcaaa aaaattaaaa ataacacaaa atggtcataa gatcataaac aatcttatgt tgtataaaaa tacgttagagt gacttagaca tgtttgcatg aataaatata tttctagaga acagttaaaa aaaaaaaaaaaa
513	160324 G Protein-Coupled Receptor GPR86/GPR94/ P2Y13	NM_023914	Homo sapiens	atgctataaa cataaagctc ttttttaaaa aatagcattt gaaaatcatg aagggctttt tgcttttttt tgcttttata tatgtttatt gtaacacaggt gacactggaa gcaatgaaca acacagtgat gcaagcttc aacagctctg agcgtgtccc cagagacact cggatagtag agctgggtatt cccagccctc tacacagctg tttctttgac cggcatcctg ctgaataact tggtctctgt gggttttgtt cacatcccca gctctccac cttcatcatc tacctcaaaa acacttttgt ggccgacttg ataagacac tcatgcttcc tttcaaaaa ctctctgact cacacctggc accctggcag ctacagactt ttgtgtgtcg tttttcttcg gtgatatatt atgagacctt gtatgtgggc atcgtgtctg tagggctcat agcctttgac agatctctca agatcatcag acctttgaga aatatcttc taaaaaaac tgtttttgca aaaaaggtct caatcttcac ctggtttctt ttgtttctca tctccctgcc aatatgact ttgagcaaca aggaagcaac acctcgtct gtgaaaaagt gtgtttctt aaagggcctt ctggggctga aatggcatca aatggttaaa acatatgccc agtttatatt ctggactgtt tttatcctaa tgctttgttt ttatgtgttt attgcaaaaa agtatataga tttctataga aagtcacaaa gtaaggacag aaaaaaac aaaaagctgg aaggcaaaagt attgtgttc gtggctgtct tctttgtgtg ttgtgtcca tttcattttg ccagagtccc atatactcac agtcaaacca acaataagac tgactgtaga ctgcaaaatc aactgtttat tctaaagaa acaactctct ttttggcagc aactaacatt tgtatggatc ccttaataa catattctta tgaataaaat tcacagaaaa gctacctgt atgcaaggga gaaagccac agcatcaagc caagaaaaat atagcagtc aacagcaaac ataaccttag gctgacaact gtaacatagg ttaacttcta

514	160324	G. Protein- Coupled Receptor GPR86/GPR94/ P2Y13	NP_076403.1	<p>ttttattgatg agacttcogt agataatgtg gaaatcaaat ttaaccaaga aaaaaagatt ggaacaaatg ctctcttaca tttttattatc ctgggtgtaca gaaaagatta tataaaattt aaatccacat agatctattc ataagctgaa tgaaccattt ctaagagaat gcaacaggat acaaatggcc actagaggtc attatttctt tcttcttttt tttttttttt aatttcaaga gcatttcact ttaacatttt ggaagaagact aaggagaaac gtatatccct acaaacctcc ctccaaaaca ccttctcaca tctttttcca caattcacat aacctactg cttttgtgcc ccttaaatgt agatatgtgc tgaagaataa aaaaaagcgc caactcttga agtccattgc tgaaaaactgc agccaggggt tgaaaaggat gcagacttga agagtctgag gaactgaagt gggtcagcaa gacctctgaa atcctgggta aggattttc tctttacaat tacaacagc ctctttcaca ttacaataat ataccatagg aggcacaaag accattatta agccactttg cttacacctt agtgtgtac aattcaagt tgagaatgtc gtgttaacta tcttttgga ttctccttct gtccagcaaa tactctaagt atggttaaac atggcaccta ctcagcaatg ccttccttga ccacaacccc tatccccctg cccacccctc ctcatataaa acaaatactt ctactgtttg ggtgtgtgat aggttcttca atgcagatct cctttttcta gttagctata ttcttgactg catccgctaa aaatgttaaa gcttcttgag agacagacat gccagatttt cttggtatct ccataatac gacctacagt ccatggtcta cagatgtttt aaatagaatt gtatttctcg atacatacaa agacgtaatt gctgacccac aatcagtaac atccatatgt ggagattttt caaaggatgg tgacctgtct ggtattttt tacccttgga ttttttcttg catcctttct tgattcaaaa aagtaaaatg tggctttctg aaatgatgga taagagtcta catcttctag aaaaaataca taaaggagta gttaaactct gtaaatgtgc cagagactcc aacacgacca tctgagggtg aagocccagt ttcttctcat ggocctaaag gccctagaac ttgcctacct ttctggcctt acctcctagc tacttatcca tctcttgaac tttatactct tgtataaatt tctaaacttc agaaaatgcc atactctgtt ttggcaccac acatgtatat ttccccctgg tacacttggg agactcttat ccatctgtga aacctatgt tgtcatcact tgggtccatga aatattacct ggccaatata ccacatcac ctcaaaccca atcacccct cctctgtatg ctgtcacacc tatattatta aacttatcac attgcaattgt aattacttcc tgacctttgt atctactctt ttagtaactg atgtatatat ctgaaaaggag agattgtttc attgtgcaat caataaatgt ttgataaaat aaagccc</p>	Homo sapiens
515	160329	Proteinase- Activated Receptor 4	NM_003950	<p>ctcccacggg ctggctggca agcgccctg gtgggtctgc gggggcagg gacgcttcc A tggtttatct ccacggcgc gatctgctgc tccgctctcg ctccagaagc tggggctcag ggtccggcga ggcaggaagc ctgaggccac agccagagc agcctgagt cagtcagtgtg ggggcgactg cctctgtggc cctgtgtgct ggggttccagc ctgtcttgccg gcacccagac ccccagcgtc taagacgaga gggggagcac cggaggtgggt gatgacagca ggcctcaat ctgtcctgcc ccccgaggct acccaggcca agtctgtgcc atgacagtg acaccttga gctcccgga cgcacaggg cactgcttct gggctgggtg cccaccaggc tgggtgccgc</p>	Homo sapiens

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357/448

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522	160388 Latrophilin- NP_055736.1	MARLAALVNN	LCVTAVLVT	ATQGLSRAGL	PFGLMRELA	CEGYIELRC	PGSDVIMVEN	P	Homo sapiens
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		RIKSGETVIN	TANYHDTSPY	RWGGKTDL	AVDENGLMVI	YATEGNNGRL	VVSQNLNPTL		
		RFEGTWETGY	DKRSASNAFM	VCGVLYVLR	VYVDDDEAA	GNRVDYAENT	NANREEPVSL		
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		KNYNKMHKRE	RTCKDYIKAV	VETVDNLLRP	EALSWKDMN	ATEQVHTATM	LLDVLBEAGF		
		LLADNVREPA	RFLAKENVV	LEVTVLNTG	QVQLVFPQE	EYPRKNSIQL	SAKTIKQNSR		

523	160390	Cadherin EGF NM_001408	LAG Seven- Pass G-Type Receptor 2 (CELSR2)	NGVVKVVFIIL YNNLGLFLST ENATVKLAGE AGPGGGGGAS LVVNSQVIAA SINKESSRVF LNDPVI FTVA HLEDKNHENA NCSFWNYSER SMLGYWSTQG CRLVESNKTHTTTCACSHLTN FAVLMAHREI YQGRINELL SVITWVGIVI SILVCLAICIS TFCFLRLGIQT DRNTIHKNL INFLAEELF LVGIDKTQYE IACPIFAGLL HYFFLAFLYL LCLEGVHLYL LLVEVFESEY SRTKYYYLGG YCFPALVVG I AAAIDYRSYG TEKACWLRVD NYFIWSFIGP VSFVIVNLV FLMVTLLHKMI RSSSVLKPDS SRLDNIKSWA LGAIALLLFL GLTWAFGLLF INKESVVMAY LFTTFNAFQG VFIFVFHCAL OKRVHKEYSK CIRHSYCCIR SPFGGTHGSL KTSAMRSNTR YYTGTSRIR RMNDTVRKQ TESSFMAGDI NSTPTLNRTG MGNHLLTNPV LQPRGGTSPY NTLIAESVGF NPSSPPVENS PGSYREPKHP LGGREACGMD TLPLNGFNEN SYSLRSGDFF PGDGGPEPR GRNLADAAAF EKMIISELVH NNLRGSSAA KGPPPPPEPPV PPVPGGGGEE EAGPGGADR AEIELLYKAL EEPILLPRAQ SVLYQSDLE SESCTAEDGA TSRPLSSPPG RDSLYASGAN LRDSPSYDPS SPEGSPSEALP PPPPAPGPP EIIYTSRPPA IVARNPLQGY YQVRRPSHEG YLAAPGLEGP GPDGDGMQL VTSL	taggagcccg aggaggagcc gccgcgcgcg ttgacccggc cgccggcccg gagctgggag A agatgcggag ccggccacc gggtccccc tcccaacgcc gccgcgcgcg ctgctgctgc tgttgctgt gctgctgcc cgccactat tgggagacca agtggggccc tgtgttccct tggggtccag gggacgagc tcttcggggg cctgcgccc catgggctgg cctgttccat ctcagcgtc gaacctctg cctacacca gccgctcgag ggatgcggc actgagctga ctggccacct gtagccccc cagatggcc tgagggtttg gtgtccagaa tccgagggcc atattccctt accaccagt cctgaaggct gccctggag cgtgcgctc ctgggcatg gaggccacct tccccacag ggcaagctca cactgcccga ggagcaccg tgcctaaagg ctcacggct cagatgccag tctgcaagc tggcacagg cccgggctc agggcagggg aaaggtcacc agaagagtc ctgggtggc gtcggaaaaa gaatgtaaat acagccccc agtccagcc cccagctac caggccacag tccggagaa cagccagca ggcacccctg ttgcatccct agggccatc gaccggagc aggtgagc aggtcgacty gactaccca tgatgcccct ctttgatag cgtcccaac agttcttct cctggacca gtcactggtg cagtaaccac agcagaggag ctggatcgtg agaccaagag caccacgctc ttcagggtca cggcgagga ccacggcatg cccgacgaa gtgccctggc tacactacc atcttggtta ctgacaccaa tgaccatgac cctgtgttc agcagcagga gtacaaggag agcctcaggg agaacctgga ggttgctat gagggtctca ctgtcaggc caggatggt gatgcccc ccaatgccaa tattctgtac cgtctgctg aggggtctg gggcagccc tctgaagtct ttgagatcga cctcgtctt ggggtgatcc gaacctgtg cctgtggtat cgggaagagg tggaatccta ccagtgacg gtagaggca gtgaccagg tgggacccg ggtcctcggg gtaccacagc cgtgtttt cttctgtgg aggatgacaa tgataatgcc cccagttta gtgagaagc ctagtggtc caggtgaggg aggatgtgac tccaggggccc ccagtactcc gagtcacagc ctcgatcga gacaaggga gcaatgccgt ggtgacctat agcatcatga gtggcaatgc tggggacag ttttatctgg atgcccagc tggagctctg gatgtggtga gccctctga ctatgagacg accaaggagt acacctacg ggtgcgagca caggatggtg gacgtcccc actctcta gtctctggt tccagggctg tgcctggag agcgtcccc acaatgcccc catcttcgt acacccctt tccagggcta tgcctggag aatgcccc	Homo sapiens
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525 160397 Latrophilin-₂ NM_012302

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SEQ ID NO:	Gene	Source ID	LPID	Peptide	SpeciesName
692	5-HT1A Receptor	P08908	595	CAPASFERKERNAEAKRKM	Homo sapiens
693	5-HT1A Receptor	P08908	608	GRIFRAARFRIRKTVKKVE	Homo sapiens
694	5-HT1A Receptor	P08908	610	RTPEDRSDPDACTISK	Homo sapiens
695	5-HT1A Receptor	P08908	612	RHGASAPAPQPKKSVNGE	Homo sapiens
696	5-HT1B Receptor	P28222	585	KQTPNRTGKRLTRAQLITD	Homo sapiens
697	5-HT1B Receptor	P28222	586	SPGSSSVTSINSRVPD	Homo sapiens
698	5-HT1B Receptor	P28222	598	KVRVSDALLEKKLMA	Homo sapiens
699	5-HT1B Receptor	P28222	599	ANLSSAPSQNCsAKD	Homo sapiens
700	5-HT1D Receptor	P28221	577	IKLADSALERKRISAA	Homo sapiens
701	5-HT1D Receptor	P28221	588	QEASNPRLNATETSEA	Homo sapiens
702	5-HT1D Receptor	P28221	589	RIYRAARNRILNPPSL	Homo sapiens
703	5-HT1D Receptor	P28221	590	KAQEEMSDCLVNTSQIS	Homo sapiens
704	5-HT1E Receptor	P28566	815	RHLSNRSTDSGNSFASC	Homo sapiens
705	5-HT1E Receptor	P28566	817	CTTEASMAIRPKTITEKM	Homo sapiens
706	5-HT1E Receptor	P28566	818	DNLDLHPGERQQISST	Homo sapiens
707	5-HT1E Receptor	P28566	2738	CVSDFSTSDPTTEFEK	Homo sapiens
708	5-HT1E Receptor	P28566	2739	RIYHAAKSLYQKRGSSR	Homo sapiens
709	5-HT1F Receptor	P30939	604	ESGEKSTKSVTSYVL	Homo sapiens
710	5-HT1F Receptor	P30939	606	DKCKISEEMSNFLAWLG	Homo sapiens
711	5-HT1F Receptor	P30939	864	IAKEEVNGQVLLSEGE	Homo sapiens
712	5-HT1F Receptor	P30939	869	STVRSLSRSEFKHEKSWR	Homo sapiens
713	5-HT2A Receptor	CAA01675.1	1106	DAFNWTVDSNRTNLSC	Homo sapiens
714	5-HT2A Receptor	CAA01675.1	1107	FGLDGDDSKVFEKSGC	Homo sapiens
715	5-HT2A Receptor	CAA01675.1	1108	PGSYTGRRITMQSISNEQKAC	Homo sapiens
716	5-HT2A Receptor	CAA01675.1	1109	CSMVALGKQHSEEAASKDNSD	Homo sapiens
717	5-HT2A Receptor	CAA01675.1	1110	NTIPALAYKSSQLQMGGQ	Homo sapiens
718	5-HT2B Receptor	P41595	1111	KGIEDVDNPNNTTC	Homo sapiens
719	5-HT2B Receptor	P41595	1112	CSSPEKVAMLDGSRKDKA	Homo sapiens
720	5-HT2B Receptor	P41595	1113	RTSTIGKSKVQTSNE	Homo sapiens
721	5-HT2B Receptor	P41595	1114	CNYRATKSVKTLKRSSK	Homo sapiens
722	5-HT2B Receptor	P41595	1187	SGLQTESIPEEMKQIVVEEQ	Homo sapiens
723	5-HT2C Receptor	P28335	1115	CKRNTAEENSANPNQDQINA	Homo sapiens
724	5-HT2C Receptor	P28335	1116	GHTEEPGLSLDFLKC	Homo sapiens
725	5-HT2C Receptor	P28335	1117	CNYKVEKKPPVRQIPRV	Homo sapiens
726	5-HT2C Receptor	P28335	1118	IGLRDEEKVFVNNITC	Homo sapiens

727	134	5-HT2C Receptor	P28335	1119	RHTNEPVIEKASDNEP	Homo sapiens
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729	134	5-HT2C Receptor	NP_000859.1	1829	CDISVSPVAAIVTDFNTSD	Homo sapiens
730	134	5-HT2C Receptor	NP_000859.1	1830	DGGRFKFPDGVQNWPAALS	Homo sapiens
731	136	5-HT4 Receptor	CAA73107.1	654	NNIGIDLEKRFNQ	Homo sapiens
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739	136	5-HT4 Receptor	CAA73107.1	2686	VTAKEHAHQIQLQIR	Homo sapiens
740	138	5-HT6 Receptor	P50406	649	RTPRPGVESADSRRLATK	Homo sapiens
741	138	5-HT6 Receptor	P50406	650	CPREKQASLASPSLRIS	Homo sapiens
742	138	5-HT6 Receptor	P50406	652	PLFMRDFKRALGRFLPC	Homo sapiens
743	138	5-HT6 Receptor	P50406	653	RAAAAVNFFNIDPAEPE	Homo sapiens
744	139	5-HT7 Receptor	P34969	658	EVTASPTWDAPPDNASGC	Homo sapiens
745	139	5-HT7 Receptor	P34969	659	KAARKSAKHKFGFPRVE	Homo sapiens
746	139	5-HT7 Receptor	P34969	660	CANLSRLKHHERKNISIFKR	Homo sapiens
747	139	5-HT7 Receptor	P34969	663	KLAERPERPEFVLKAC	Homo sapiens
748	272	Adenosine A1 Receptor	AAA17544.1	8	CHKPSILTYIAFLT	Homo sapiens
749	272	Adenosine A1 Receptor	AAA17544.1	9	NGSMGEPVKCEFEKVISME	Homo sapiens
750	272	Adenosine A1 Receptor	AAA17544.1	10	NKKVSASSGDPQKYWGKELK	Homo sapiens
751	272	Adenosine A1 Receptor	AAA17544.1	11	NDHFRCPAPPIDEDLPEER	Homo sapiens
752	272	Adenosine A1 Receptor	P25099	286	CQKPPIDEDLPEEKAED	Rattus norvegicus
753	272	Adenosine A1 Receptor	P25099	302	QPKPPIDEDLPEEKAED	Rattus norvegicus
754	272	Adenosine A1 Receptor	AAA17544.1	303	MPPSISAFQAAYIGIEVU	Homo sapiens
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758	273	Adenosine A2a Receptor	P11617	1240	RIRFRQIFRKIRSH	Canis familiaris
759	274	Adenosine A2b Receptor	P29275	676	KDSATNNCTEPWDGTINES	Homo sapiens
760	274	Adenosine A2b Receptor	P29275	677	CRQLQRTELMDSRITLQRE	Homo sapiens
761	274	Adenosine A2b Receptor	P29275	678	RNRDRYTFHKISRYLLC	Homo sapiens
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763	274	Adenosine A2b Receptor	P29275	680	CVTLFQPAQGNKPKW	Homo sapiens
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765	275	Adenosine A3 Receptor	P33765	683	IFYIRNKLSNLNSKE	Homo sapiens
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770	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	4	CPRVVLPLEEIFFTIS	Homo sapiens
771	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	5	MGYLKPRGSFETTADDIDS	Homo sapiens
772	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	6	RYHSIVTMRRTVAVLT	Homo sapiens
773	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	7	AFRSPELRDAFKKMIFC	Homo sapiens
774	376	Alpha 1d-adrenoceptor	AAA35496.1	12	RSTRSLEAGVKRERGKASE	Homo sapiens
775	376	Alpha 1d-adrenoceptor	AAA35496.1	13	KEPVPPDERFCGITEEAG	Homo sapiens
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778	377	Alpha 1b-adrenoceptor	P35368	696	KEMSNKELTIRHSK	Homo sapiens
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782	379	Alpha 1c-adrenoceptor	AAA93114.1	1245	GSGMASAKTKTHFSVR	Homo sapiens
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786	387	Alpha 2a-adrenoceptor	P08913	1343	ERRPGLGPERSAAGPG	Homo sapiens
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790	387	Alpha 2a-adrenoceptor	P08913	1347	RVGAAKASRWGRQGNRE	Homo sapiens
791	388	Alpha 2b-adrenoceptor	P18089	1348	IKGDQGPQPRGRPQC	Homo sapiens

792	388	Alpha 2b-adrenoceptor	P18089	1349	RSNRRGPRAKGGPGQGE	Homo sapiens
793	388	Alpha 2b-adrenoceptor	P18089	1350	ASAREVNGHSHKSTGEK	Homo sapiens
794	388	Alpha 2b-adrenoceptor	P18089	1351	RGVGAIGGGQWRRRAH	Homo sapiens
795	389	Alpha 2c-adrenoceptor	P18825	1352	RAPVGPDCASPTTENG	Homo sapiens
796	389	Alpha 2c-adrenoceptor	P18825	1353	RTGTARPRPTWSRTR	Homo sapiens
797	389	Alpha 2c-adrenoceptor	P18825	1354	ASRSPGPGGRLSRASS	Homo sapiens
798	389	Alpha 2c-adrenoceptor	P18825	1355	RSVEFFLSRRRRARSSVC	Homo sapiens
799	599	Bradykinin B1 Receptor	P46663	798	PMAASGRQRRRRQARVTC	Homo sapiens
800	599	Bradykinin B1 Receptor	P46663	799	NVHILASLRITREEVSR	Homo sapiens
801	599	Bradykinin B1 Receptor	P46663	800	RVRGPKDSKTTAULT	Homo sapiens
802	599	Bradykinin B1 Receptor	P46663	801	VGRLFRITKWELYKQC	Homo sapiens
803	600	Bradykinin B2 Receptor	AAB02793.1	794	FRITMKEYSDEGHNVAC	Homo sapiens
804	600	Bradykinin B2 Receptor	AAB02793.1	795	CTMQIMQVLRNINEMQKFKE	Homo sapiens
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806	600	Bradykinin B2 Receptor	AAB02793.1	797	CRSEPIQMENSMTLRTS	Homo sapiens
807	635	Beta-1 adrenoceptor	AAA51667.1	1357	RVFREAGKQVKIDSC	Homo sapiens
808	635	Beta-1 adrenoceptor	AAA51667.1	1358	CERRFLGGPARPPSPS	Homo sapiens
809	635	Beta-1 adrenoceptor	AAA51667.1	1359	ANGRAGKRPSRLVALRE	Homo sapiens
810	635	Beta-1 adrenoceptor	AAA51667.1	1360	CARRAARRRHATHGDRPRAS	Homo sapiens
811	635	Beta-1 adrenoceptor	AAA51667.1	1361	CLARPGPPSPGAASD	Homo sapiens
812	635	Beta-1 adrenoceptor	AAA51667.1	1362	CNGGAAADSDSSLDEP	Homo sapiens
813	640	Beta-2 adrenoceptor	NP_000015.1	2654	KRGLQKIDKSEGRFHV	Homo sapiens
814	640	Beta-2 adrenoceptor	NP_000015.1	2656	GEQSGYHVEGEKENKLLC	Homo sapiens
815	640	Beta-2 adrenoceptor	NP_000015.1	2662	APNIRSHAPDHDVTQQR	Homo sapiens
816	640	Beta-2 adrenoceptor	NP_000015.1	2663	VPLVMVFVYSRVFQE	Homo sapiens
817	643	Beta-3 adrenoceptor	P13945	1390	RGELGRPPPEESPAP	Homo sapiens
818	643	Beta-3 adrenoceptor	P13945	1391	SRLAPAPVGTICAPPE	Homo sapiens
819	643	Beta-3 adrenoceptor	P13945	1392	GVPACGRRPARLLPRE	Homo sapiens
820	643	Beta-3 adrenoceptor	P13945	1393	PSGVPAAARSSPAQRLC	Homo sapiens
821	688	Opsin, blue-sensitive	NP_001699.1	1753	EEEFYLFKNISSVGPWDGPQ	Homo sapiens
822	688	Opsin, blue-sensitive	NP_001699.1	1754	CGPDWYTVGTYRSESYT	Homo sapiens
823	688	Opsin, blue-sensitive	NP_001699.1	1755	NNRNHGLDLRLVTIPS	Homo sapiens
824	688	Opsin, blue-sensitive	NP_001699.1	1756	IMKMVCGKAMIDESDT	Homo sapiens
825	692	Bombesin Receptor	AAA35604.1	20	SITNDTESSSVVNDNTNK	Homo sapiens
826	692	Subtype-3 Bombesin Receptor Subtype-3	AAA35604.1	21	KAVVKPLERQPSNAILKTC	Homo sapiens

827	692	Bombesin Receptor Subtype-3	AA335604.1	22	RDPNKNMIFESCTSPVSKK	Homo sapiens
828	692	Bombesin Receptor Subtype-3	AA335604.1	23	RTLKSTLNIPTTEQSHARK	Homo sapiens
829	692	Bombesin Receptor Subtype-3	AA335604.1	24	KSFQKHFKAGQLFCKAERPE	Homo sapiens
830	692	Bombesin Receptor Subtype-3	NP_001718.1	2286	NKGWSGDNSPGIEALC	Homo sapiens
831	692	Bombesin Receptor Subtype-3	NP_001718.1	2287	QRQPHSPNQTLISITNDTE	Homo sapiens
832	692	Bombesin Receptor Subtype-3	NP_001718.1	2288	RPEPPVADTSLTLAV	Homo sapiens
833	692	Bombesin Receptor Subtype-3	NP_001718.1	2289	SEISVTSFTGCSVKQAEADR	Homo sapiens
834	729	CXC Chemokine Receptor 5	P32302	1382	ELDRLDNYNDTSLVENHLC	Homo sapiens
835	729	CXC Chemokine Receptor 5	P32302	1383	SQGHNNNSLPRCTFSQE	Homo sapiens
836	729	CXC Chemokine Receptor 5	P32302	1384	CYGVVHRLRQAGRRP	Homo sapiens
837	729	CXC Chemokine Receptor 5	P32302	1385	CQLFSPWRSSLSSENA	Homo sapiens
838	735	C-C Chemokine Receptor 1	P32246	305	TEDYDTTFEDYGDATPC	Homo sapiens
839	735	C-C Chemokine Receptor 1	P32246	1242	ASMPGLYFSKTQWETHHC	Homo sapiens
840	735	C-C Chemokine Receptor 1	P32246	1243	CSLHFPHESLREWKLQA	Homo sapiens
841	735	C-C Chemokine Receptor 1	P32246	1244	TILSVFQDFLFHEC	Homo sapiens
842	737	C-C Chemokine Receptor 3	P51677	1386	CSALYPEDTVYSWRHF	Homo sapiens
843	737	C-C Chemokine Receptor 3	P51677	1387	PEFIFYETELFEETLC	Homo sapiens
844	737	C-C Chemokine Receptor 3	P51677	1388	SSYQSILFGNDCERSK	Homo sapiens
845	737	C-C Chemokine Receptor 3	P51677	1389	GRYIPFLPSEKLETS	Homo sapiens
846	737	C-C Chemokine Receptor 3	P51677	1751	DDVGLLCEKADTRALMAQFV	Homo sapiens
847	738	C-C Chemokine Receptor 4	P51680	306	MNATEVTDITQDETIVNSW	Mus musculus
848	738	C-C Chemokine Receptor 4	P51679	348	DESISNYWLYESIPKC	Homo sapiens
849	738	C-C Chemokine Receptor 4	P51679	351	DTPSSSYTGSTMDHDLHD	Homo sapiens
850	738	C-C Chemokine Receptor 4	P51679	353	LETILVEVLQDCTFE	Homo sapiens
851	738	C-C Chemokine Receptor 4	P51679	491	RNHTYCKTKYSLNSTWK	Homo sapiens
852	741	C-C Chemokine Receptor 7	P32248	748	CQDEVTDDYIGDNTTVD	Homo sapiens
853	741	C-C Chemokine Receptor 7	P32248	846	PELLYSDLQSRSSSEQAMRC	Homo sapiens
854	741	C-C Chemokine Receptor 7	P32248	847	QLRQWSSCRHRRSSMSVE	Homo sapiens
855	741	C-C Chemokine Receptor 7	P32248	848	GVKFRNDLFLKLDLGC	Homo sapiens
856	742	C-C Chemokine Receptor 8	P51685	359	PDIFSSPCDAELIQING	Homo sapiens

857	742	C-C Chemokine Receptor 8	P51685	360	KILHLKRCQNIHNKTKAIR	Homo sapiens
858	742	C-C Chemokine Receptor 8	P51685	362	SOIFNYLGRQMPRESC	Homo sapiens
859	742	C-C Chemokine Receptor 8	P51685	493	FVGEKFKHLSEIFQKSC	Homo sapiens
860	752	CXC Chemokine Receptor 3	P49682	1371	ENFSSYDYGENSEDSC	Homo sapiens
861	752	CXC Chemokine Receptor 3	P49682	1372	CYAHILAVLLVSRGQRRIRA	Homo sapiens
862	752	CXC Chemokine Receptor 3	P49682	1373	MVLEVSDHQVLNDAEVAALL	Homo sapiens
863	752	CXC Chemokine Receptor 3	P49682	1374	CPNQRGLQRQPSSRRD	Homo sapiens
864	753	CXC Chemokine Receptor 4	P30991	1376	TEEMGSGDYDSMKEPC	Homo sapiens
865	753	CXC Chemokine Receptor 4	P30991	1377	KKLRSMITDKYRLHLSVAD	Homo sapiens
866	753	CXC Chemokine Receptor 4	P30991	1380	CIISKLSHSGHGQKRKALK	Homo sapiens
867	753	CXC Chemokine Receptor 4	P30991	1381	KILSKGKRGGHSSVSTE	Homo sapiens
868	755	Complement Component 3a Receptor 1	AAC50657.1	25	ENRSLNIVQPPGEMNDRID	Homo sapiens
869	755	Complement Component 3a Receptor 1	AAC50657.1	26	KIPSGFPIEDHETSPIDNSD	Homo sapiens
870	755	Complement Component 3a Receptor 1	AAC50657.1	27	RKKARGSIQIGILEAAFSEE	Homo sapiens
871	755	Complement Component 3a Receptor 1	AAC50657.1	28	PQTFQRPSADSLPRGSARLT	Homo sapiens
872	758	Complement Component 5a Receptor 1	P21730	811	DLNTPVDKTSNITLRVPD	Homo sapiens
873	758	Complement Component 5a Receptor 1	P21730	812	CGVDYSHDKRRERAVAIVRL	Homo sapiens
874	758	Complement Component 5a Receptor 1	P21730	813	CYTHLLRTWSRRATRSTK	Homo sapiens
875	758	Complement Component 5a Receptor 1	P21730	814	QGRLRKSLPSLLRNVLTE	Homo sapiens
876	767	Calcitonin Receptor-like Receptor	Q16602	841	AEELESPEDSIQLGVTR	Homo sapiens
877	767	Calcitonin Receptor-like Receptor	Q16602	843	EFVLIPWRPEGKIAEEV	Homo sapiens
878	767	Calcitonin Receptor-like Receptor	Q16602	844	RRNWNQYKIQFGNSFENSE	Homo sapiens
879	767	Calcitonin Receptor-like Receptor	Q16602	845	RSASYTVTSTISDGPYSHDC	Homo sapiens
880	832	Cannabinoid Receptor 1	AAB18200.1	29	NDIQYEDIKGDMSKLG	Homo sapiens
881	832	Cannabinoid Receptor 1	AAB18200.1	30	KENEENIQCGENFMDIE	Homo sapiens
882	832	Cannabinoid Receptor 1	AAB18200.1	31	EDGKVQVTRPDQARMDIR	Homo sapiens

883	832	Cannabinoid Receptor 1	AAB18200.1	32	CEGTAQPLDINSMGDS	Homo sapiens
884	832	Cannabinoid Receptor 1	AAB18200.1	274	MKSILDGLADTIFR	Homo sapiens
885	832	Cannabinoid Receptor 1	AAB18200.1	297	NKLSSEKENEENIQ	Homo sapiens
886	833	Cannabinoid Receptor 2	CAA52376.1	33	KDGLDSNPMKDYMLSGPQK	Homo sapiens
887	833	Cannabinoid Receptor 2	CAA52376.1	34	QDRQVPGMARMRLDVRLAKT	Homo sapiens
888	833	Cannabinoid Receptor 2	CAA52376.1	35	KEEAPRSSVTETADGK	Homo sapiens
889	833	Cannabinoid Receptor 2	CAA52376.1	36	RSGEIRSSAHHCIAHWKCK	Homo sapiens
890	922	Leukocyte Antigen CD97	NP_001775.1	2644	GRDPPAKDVMGPRQELLC	Homo sapiens
891	922	Leukocyte Antigen CD97	NP_001775.1	2646	CSPGYEPVSGAKTFKN	Homo sapiens
892	922	Leukocyte Antigen CD97	NP_001775.1	2647	FSSFSEITPTETC	Homo sapiens
893	922	Leukocyte Antigen CD97	NP_001775.1	2648	CRPGWKPRHGIPNNQIK	Homo sapiens
894	922	Leukocyte Antigen CD97	NP_001775.1	2649	DGEAGRDPPAKDVMGPR	Homo sapiens
895	922	Leukocyte Antigen CD97	NP_001775.1	2650	ANASLNLSKQKQAELE	Homo sapiens
896	922	Leukocyte Antigen CD97	NP_001775.1	2651	RLSAVNSIFLSHNITKE	Homo sapiens
897	922	Leukocyte Antigen CD97	NP_001775.1	2652	KLTKFSEINPDMKKL	Homo sapiens
898	922	Leukocyte Antigen CD97	NP_001775.1	2680	KLVDLMEAPGDVEAL	Homo sapiens
899	922	Leukocyte Antigen CD97	NP_001775.1	2681	RFDKVGDLGRDSKTSS	Homo sapiens
900	941	EMR1 Hormone Receptor	Q14246	1180	RAEYLDIESKVINKEC	Homo sapiens
901	941	EMR1 Hormone Receptor	Q14246	2675	CVMHSWEGHIRTRKPNTK	Homo sapiens
902	941	EMR1 Hormone Receptor	Q14246	2677	CLNGQVREYKRWITGKTP	Homo sapiens
903	941	EMR1 Hormone Receptor	Q14246	2678	CLNGQVREYKRWITGK	Homo sapiens
904	941	EMR1 Hormone Receptor	Q14246	2679	SGHLSGQGLKASCE	Homo sapiens
905	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1183	GTALANGTGELSEHQ	Homo sapiens
906	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1184	ADSUEVFNHERVYD	Homo sapiens
907	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1185	VRAHRHRLRPRRQKA	Homo sapiens
908	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1186	DKLRLYIEQKTNLPALNRF	Homo sapiens
909	978	Cholecystokinin A Receptor	P32238	820	AKERKPSSTSSGKYEDSDGC	Homo sapiens
910	978	Cholecystokinin A Receptor	P32238	821	CYLQKTRPPRKLELRQ	Homo sapiens
911	978	Cholecystokinin A Receptor	P32238	822	SANAWRAYDTASAERR	Homo sapiens
912	978	Cholecystokinin A Receptor	P32238	823	CPNPGPPGARGEVGEE	Homo sapiens
913	1103	Coricotropin releasing factor Receptor 2	Q13324	453	CEPILDDKQRKYDLHYRIAL	Homo sapiens
914	1103	Coricotropin releasing	Q13324	502	QLVDHEVHESNEVWC	Homo sapiens

915	factor Receptor 2	1103	Q13324	505	DPEGPYSYCNITLDQIGTCW	Homo sapiens
916	Carticotropin releasing factor Receptor 2	1103	UR43	507	ALLEQYCHTITMLTNLSG	Homo sapiens
917	factor Receptor 2	1240	CAA41734.1	41	SSHHEPRGSISKEC	Homo sapiens
918	Dopamine Receptor D1	1240	CAA41734.1	42	KAKPTSPSDGNATSLAETID	Homo sapiens
919	Dopamine Receptor D1	1240	CAA41734.1	43	CSQPESSEFKMSFKRE	Homo sapiens
920	Dopamine Receptor D1	1240	CAA41734.1	44	EDLKKEEAAGIARPLEK	Homo sapiens
921	Dopamine Receptor D5	1241	P21918	1407	PWEEDFWEPDVNAENC	Homo sapiens
922	Dopamine Receptor D5	1241	P21918	1408	CAPDTSLRASIKKETK	Homo sapiens
923	Dopamine Receptor D5	1241	P21918	1409	PNAVTPGNREVDNDEE	Homo sapiens
924	Dopamine Receptor D5	1241	P21918	1410	QITSPDGDPAESVWELDC	Homo sapiens
925	Dopamine Receptor D2	1242	P14416	1403	KRSSRAFRALHRLAPLKGNIC	Homo sapiens
926	Dopamine Receptor D2	1242	P14416	1404	CTVIMKSNCSFPVNRIRRV	Homo sapiens
927	Dopamine Receptor D2	1242	P14416	1405	KPEKNGHAKDHPKIAK	Homo sapiens
928	Dopamine Receptor D2	1242	P14416	1406	GKIRTSLSKTSRRRLSQQKE	Homo sapiens
929	Dopamine Receptor D3	1243	P35462	1398	KQRRRKRLTRQNSQC	Homo sapiens
930	Dopamine Receptor D3	1243	P35462	1399	CNSVRPGFPQQTLSPDP	Homo sapiens
931	Dopamine Receptor D3	1243	P35462	1400	CQDTALGGPGFQERGGGE	Homo sapiens
932	Dopamine Receptor D3	1243	P35462	1401	KREEKTRNSLSPTIAP	Homo sapiens
933	Dopamine Receptor D3	1243	P35462	1402	STSLKLGPLQPRGVPLRE	Homo sapiens
934	Dopamine Receptor D4	1244	P21917	1394	VAVAVPLRYNRQGGSR	Homo sapiens
935	Dopamine Receptor D4	1244	P21917	1395	EVARRAKLHGRAPRRP	Homo sapiens
936	Dopamine Receptor D4	1244	P21917	1396	PPSPTPPAPRLPQDPC	Homo sapiens
937	Dopamine Receptor D4	1244	P21917	1397	PPQTPPQTRRRRAKITGRE	Homo sapiens
938	Opioid Receptor, delta 1 (OPRD1)	1267	AAA18789.1	222	DAYPSAFPSAGANASGP	Homo sapiens
939	Opioid Receptor, delta 1 (OPRD1)	1267	AAA18789.1	224	LVDIDRRDPLVVAALHLC	Homo sapiens
940	Opioid Receptor, delta 1 (OPRD1)	1267	AAA18789.1	225	KRCFRQLCRKPCGRPD	Homo sapiens
941	Opioid Receptor, delta 1 (OPRD1)	1267	AAA18789.1	226	SRPREATARERVTAC	Homo sapiens
942	Duffy Antigen	1424	AAC50055.1	1411	TENSSQLDFEDVWNSS	Homo sapiens
943	Duffy Antigen	1424	AAC50055.1	1412	NDSFPDGDYDANLEAAAPC	Homo sapiens
944	Duffy Antigen	1424	AAC50055.1	1413	CHASLGHRLGAGQVPG	Homo sapiens

945	1424	Duffy Antigen	AAC50055.1	1415	FGAKGLKALGMGPGP	Homo sapiens
946	1451	EBV-induced Gene 2	AA35924.1	45	KQEAERITCMEYPNFEET	Homo sapiens
947	1451	EBV-induced Gene 2	AA35924.1	46	KLRTAKQNPLEKSGVNNK	Homo sapiens
948	1451	EBV-induced Gene 2	AA35924.1	47	KSAPENSREMTETQM	Homo sapiens
949	1451	EBV-induced Gene 2	AA35924.1	48	CKGYKRKVMRMILKRQ	Homo sapiens
950	1486	Endothelin B Receptor	BAA14398.1	54	GEERGFPDRATPLLQTAE	Homo sapiens
951	1486	Endothelin B Receptor	BAA14398.1	55	RSLAPAEVPGKDRTAGSP	Homo sapiens
952	1486	Endothelin B Receptor	BAA14398.1	56	PRTSPPPCQGPPIKE	Homo sapiens
953	1486	Endothelin B Receptor	BAA14398.1	57	EKQSLKQSLKFKAND	Homo sapiens
954	1488	Endothelin A Receptor	AAB25530.1	49	RYSTNLSNHVDDFTFRGTE	Homo sapiens
955	1488	Endothelin A Receptor	AAB25530.1	50	NRRNGSLRIALSEHLK	Homo sapiens
956	1488	Endothelin A Receptor	AAB25530.1	51	EYRGEQHKTCMLNATSK	Homo sapiens
957	1488	Endothelin A Receptor	AAB25530.1	53	KNHDQNNHNIDRSSHKD	Homo sapiens
958	1598	Calcium-Sensing Receptor (CASR)	P41180	1425	RPGIEKFREEAEERD/C	Homo sapiens
959	1598	Calcium-Sensing Receptor (CASR)	P41180	1426	CHLQEGAKGPLPVDITFLR	Homo sapiens
960	1598	Calcium-Sensing Receptor (CASR)	P41180	1427	GHEESGDRFSNSSTAFLRPLC	Homo sapiens
961	1598	Calcium-Sensing Receptor (CASR)	P41180	1428	KGIIEGEPTCCFECVECPDG	Homo sapiens
962	1598	Calcium-Sensing Receptor (CASR)	P41180	1429	CSTAAAHAFKVAARATLRRSN	Homo sapiens
963	1598	Calcium-Sensing Receptor (CASR)	P41180	1430	PQKNAMAHNRNSTHQNSLE	Homo sapiens
964	1598	Calcium-Sensing Receptor (CASR)	P41180	1431	RPEVEDPEELSPALVSSSQ	Homo sapiens
965	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1878	ASWGGTPEERLKVAITMLTA	Homo sapiens
966	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1879	SEDSAPTNDTAANSAS	Homo sapiens
967	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1880	SVESAGYTVLRILPLVWL	Homo sapiens
968	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1881	PVFLFLTVTPNGD	Homo sapiens
969	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2612	EERLKVAITMLTARGIIRFV	Homo sapiens
970	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2613	ERALSEDSAPTNDTAANSAS	Homo sapiens

971	1681	Like Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	58	QESKVTEIPSDLPRNAIELR	Homo sapiens
972	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	59	DVLEVIEADVFSNLPK	Homo sapiens
973	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	60	RNGHCSSAPRVTSGSTY	Homo sapiens
974	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	61	RGQRSSLAEDNESSYRGFD	Homo sapiens
975	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2231	CHHRICHCNSNRVFLCQE	Homo sapiens
976	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2232	LRVIQKGAFSGFGDLEK	Homo sapiens
977	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2233	LYVMSLLVLNVLAFFVIC	Homo sapiens
978	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2234	CNKSLRQEVDMITQARGQR	Homo sapiens
979	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2236	SDNNNLEELPNDVFHGA	Homo sapiens
980	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2238	KLVALMEASLTYPShC	Homo sapiens
981	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2241	SFESVILWLKNGIQEIHC	Homo sapiens
982	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2248	IHSLQKVLLDIQDNINIHT	Homo sapiens
983	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2250	KANNLLYTPEAFQNLP	Homo sapiens
984	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2251	CYEMQAGIVRTISTSVH	Homo sapiens
985	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1437	TNTPSSRKKMVRVVVC	Homo sapiens
986	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1439	ARAIASSDGQEKHSSRK	Homo sapiens
987	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1440	KYSAKTGLTKLUDASRVSET	Homo sapiens
988	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1893	PDTYMLKTVTSASNNETYC	Homo sapiens
989	1762	Galanin Receptor GalR1	Galanin Receptor GalR1	AAA50767.1	192	GNSLVITVLARSKPGKPR	Homo sapiens
990	1762	Galanin Receptor GalR1	Galanin Receptor GalR1	AAA50767.1	193	PRASNQITFCWEQWDPDRHKK	Homo sapiens

991	1762	Galanin Receptor GalR1	AAA50767.1	194	KKLKNMSKSEASKKTAQ	Homo sapiens
992	1762	Galanin Receptor GalR1	AAA50767.1	195	GNSLVTVLARSKP	Homo sapiens
993	1762	Galanin Receptor GalR1	AAA50767.1	196	RKDSHLSDTKENKSRID	Homo sapiens
994	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1250	QTAGELYQRWERYRREC	Homo sapiens
995	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1251	CENPEKNEAFLDQRULER	Homo sapiens
996	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1253	CRLRSLGEEQRQLPERARR	Homo sapiens
997	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1276	PTSRGLSSGTLPGPNEA	Homo sapiens
998	1813	Gastrin-Releasing Peptide Receptor	P30550	829	CNISSHSADLPVNDWWSHPG	Homo sapiens
999	1813	Gastrin-Releasing Peptide Receptor	P30550	830	SDLHPFHEESTNQTFISC	Homo sapiens
1000	1813	Gastrin-Releasing Peptide Receptor	P30550	831	YNLPVEGNIHVKKQIES	Homo sapiens
1001	1813	Gastrin-Releasing Peptide Receptor	P30550	832	CQPGLIIRSHSTGRSTT	Homo sapiens
1002	1814	Cholecystokinin B Receptor	Q16144	1281	CEPRIRGAGTRELALAIR	Homo sapiens
1003	1814	Cholecystokinin B Receptor	Q16144	1282	RVRNQGGPLGAVHQNGRC	Homo sapiens
1004	1814	Cholecystokinin B Receptor	Q16144	1283	LRFDGSDSDSQSRVR	Homo sapiens
1005	1814	Cholecystokinin B Receptor	Q16144	1284	CRPETGAVGKDSGDCY	Homo sapiens
1006	1834	Glucagon Receptor	P47871	837	DGLLRTRYSQIKIGDDL	Homo sapiens
1007	1834	Glucagon Receptor	P47871	838	CGPDGGQWVRGPRGQPWDRAS	Homo sapiens
1008	1834	Glucagon Receptor	P47871	839	CQMDGEEIEVQKEVAKMYSS	Homo sapiens
1009	1834	Glucagon Receptor	P47871	840	TSNHRASSSPGHGPPSKE	Homo sapiens
1010	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	206	KLQKWTQKKEGKKLSRMK	Homo sapiens
1011	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	207	DRSLAIRPLALKSNSKVGQ	Homo sapiens
1012	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	208	RMIHLADSSGGQTKVFSQC	Homo sapiens
1013	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	209	DPHELQLNGSKNNIPRARLK	Homo sapiens
1014	1945	Opsin, green-sensitive	NP_000504.1	1746	QRLAGRHPQDSYEDSTGSS	Homo sapiens
1015	1945	Opsin, green-sensitive	NP_000504.1	1747	CKPFGNVRFDAKLAIVG	Homo sapiens
1016	1945	Opsin, green-sensitive	NP_000504.1	1748	KTSCGPDVFSGSSYPGVQS	Homo sapiens

1017	1945	Opn, green-sensitive	NP_000504.1	1750	CILQLFGKKVDDGSELSS	Homo sapiens
1018	1945	Opn, green-sensitive	NP_000504.1	1767	STRGPFEGPNVHIAPR	Homo sapiens
1019	1945	Opn, green-sensitive	NP_000504.1	1768	TNGLVLAATMKFKKL	Homo sapiens
1020	1945	Opn, green-sensitive	NP_000504.1	1769	ELSSASKTEVSSVSSVSP	Homo sapiens
1021	1951	Growth Hormone	Q92847	581	ADLDWDASPGNDSLGD	Homo sapiens
1022	1951	Secretagogue Receptor	Q92847	582	GVEHENGTDPWDINEC	Homo sapiens
1023	1951	Secretagogue Receptor	Q92847	583	KLWRRRRRGDAVVGASL	Homo sapiens
1024	1951	Secretagogue Receptor	Q92847	584	SGRKLSTLKDESSRAW	Homo sapiens
1025	1954	Secretagogue Receptor	Q02643	833	REDESACLQAAEEMPNTILG	Homo sapiens
1026	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	834	CPDFFSHFSSESGAVKRD	Homo sapiens
1027	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	835	VRKLEPAQGSUHTQSQ	Homo sapiens
1028	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	836	RTEISRKWHGHDPPELL	Homo sapiens
1029	2120	Histamine H1 Receptor	P35367	1167	GWNHFMQQTSVRREDKC	Homo sapiens
1030	2120	Histamine H1 Receptor	P35367	1168	CQHRELINRSLPSFSEIKLR	Homo sapiens
1031	2120	Histamine H1 Receptor	P35367	1169	AGGGSVLKSFSQTPKE	Homo sapiens
1032	2120	Histamine H1 Receptor	P35367	1170	KSPVVFQEDDREVDKLYC	Homo sapiens
1033	2120	Histamine H1 Receptor	P35367	1171	TAPGKGKLRSGSNTGLD	Homo sapiens
1034	2120	Histamine H1 Receptor	P35367	1172	KRLRSHSRQVYVSGLIHMNRE	Homo sapiens
1035	2121	Histamine H2 Receptor	P25021	1173	NSRNETSKGNHTSKC	Homo sapiens
1036	2121	Histamine H2 Receptor	P25021	1174	CITYYRIFKVARDDQAKR	Homo sapiens
1037	2121	Histamine H2 Receptor	P25021	1175	RDQAKRINHISWKA	Homo sapiens
1038	2121	Histamine H2 Receptor	P25021	1176	TAFVYRGLRGDDAINE	Homo sapiens
1039	2121	Histamine H2 Receptor	P25021	1177	HKTSLPSNASQLSRTGSRE	Homo sapiens
1040	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	227	DSNGSAGSEDAQLEPA	Homo sapiens
1041	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	228	KVREDVDVIECSLQFPDD	Homo sapiens
1042	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	229	RNTVQDPAYLRDIDGMNK	Homo sapiens
1043	2783	Opioid Receptor, kappa 1	AAA63906.1	230	CFPLKMRMERQSTSRVRN	Homo sapiens

1044	2964	(OPRK1) Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1432	CNTGIRKFPDVTKVFSSES	Homo sapiens
1045	2964	Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1433	KMHNGAFRGATGPKTLD	Homo sapiens
1046	2964	Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1434	CESTVRKVSNIKLYSS	Homo sapiens
1047	2964	Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1435	FAVRNPELMATNKDTK	Homo sapiens
1048	2964	Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1436	CKRRRAELYRRKDFSAVTSN	Homo sapiens
1049	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	210	ERHITVFRMQLHTRMSNRR	Homo sapiens
1050	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	211	RQRTMRMSRHSSGPRRNRD	Homo sapiens
1051	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	212	KHLATEWNTVSKLVM	Homo sapiens
1052	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	213	ENPTGPTESDRSASSLN	Homo sapiens
1053	3038	G Protein-Coupled Receptor MIRG	AAB21255.1	184	ESQISLSCSLCHSGDQEAQ	Homo sapiens
1054	3038	G Protein-Coupled Receptor MIRG	AAB21255.1	185	QQGQKATRWAWQISAPM	Homo sapiens
1055	3038	G Protein-Coupled Receptor MIRG	AAB21255.1	186	DKPEVGRNKKAAAGIDPME	Homo sapiens
1056	3038	G Protein-Coupled Receptor MIRG	AAB21255.1	187	EQPHSTGHVENLLPREHRVD	Homo sapiens
1057	3057	Melanocortin 3 Receptor (MC3R)	P41968	451	RLHVVKRIAALPPADGVAPQ	Homo sapiens
1058	3057	Melanocortin 3 Receptor (MC3R)	P41968	452	DPLVAFRSLELRNTFRE	Homo sapiens
1059	3057	Melanocortin 3 Receptor (MC3R)	P41968	562	QAPFFSNGSSSAFCEQVFI	Homo sapiens
1060	3057	Melanocortin 3 Receptor	P41968	563	IVHSDYLTFFEDQFIQHMDNI	Homo sapiens

1061	3058	(MC3R)	Melanocortin 4 Receptor (MC4R)	AAB33341.1	1032	HSNASESLGKGYSDGGC	Homo sapiens
1062	3058	(MC4R)	Melanocortin 4 Receptor (MC4R)	AAB33341.1	1033	KRIAVLPGTGAIRQGA	Homo sapiens
1063	3058	(MC4R)	Melanocortin 4 Receptor (MC4R)	AAB33341.1	1035	NSTDIDAQSFTVNIDN	Homo sapiens
1064	3058	(MC4R)	Melanocortin 4 Receptor (MC4R)	AAB33341.1	1469	NSTHRGMHTSLHLWNRSSYR	Homo sapiens
1065	3059	(MC5R)	Melanocortin 5 Receptor (MC5R)	P33032	1022	ATEGNLSGPNVKNKSSPC	Homo sapiens
1066	3059	(MC5R)	Melanocortin 5 Receptor (MC5R)	P33032	1024	NKHLVIADAFVRHIDN	Homo sapiens
1067	3059	(MC5R)	Melanocortin 5 Receptor (MC5R)	P33032	1025	MNSSFHLHFLDLNLNAT	Homo sapiens
1068	3059	(MC5R)	Melanocortin 5 Receptor (MC5R)	P33032	1026	RYHHIMTARRSGAIIAG	Homo sapiens
1069	3061	(MC1R)	Melanocortin 1 Receptor (MC1R)	AAD41352.1	1036	QGSQRRLGSLNSTPT	Homo sapiens
1070	3061	(MC1R)	Melanocortin 1 Receptor (MC1R)	AAD41352.1	1038	EAGALVARAAVLQQLD	Homo sapiens
1071	3061	(MC1R)	Melanocortin 1 Receptor (MC1R)	AAD41352.1	1039	ALRYHSIVTLPRARQA	Homo sapiens
1072	3061	(MC1R)	Melanocortin 1 Receptor (MC1R)	AAD41352.1	1040	CQHAQGIARLHKRQRP	Homo sapiens
1073	3079		Melatonin Receptor type 1a	AAB17720.1	214	HSUKYDKLYSSKNSLC	Homo sapiens
1074	3079		Melatonin Receptor type 1a	AAB17720.1	215	CTARVFFVDSSNDVADR	Homo sapiens
1075	3079		Melatonin Receptor type 1a	AAB17720.1	216	QVRQIRVKPDRPKLKP	Homo sapiens
1076	3079		Melatonin Receptor type 1a	AAB17720.1	217	DSSNDVADRVKWKPSPLMTN	Homo sapiens
1077	3080		Melatonin Receptor type 1b	P49286	930	AVRPGWSGAGSARPSR	Homo sapiens
1078	3080		Melatonin Receptor type 1b	P49286	931	LVAIFYDGWALGEEHC	Homo sapiens
1079	3080		Melatonin Receptor type 1b	P49286	932	LVLGARRKAKPESRLC	Homo sapiens
1080	3080		Melatonin Receptor type 1b	P49286	933	CIQDASKGSHAEGLQSPA	Homo sapiens
1081	3080		Melatonin Receptor type 1b	P49286	934	QEMAPQIPEGLFVTSY	Homo sapiens
1082	3081		Melatonin-Related Receptor	Q13585	751	LAARDPAGQNPQNLQAE	Homo sapiens
1083	3081		Melatonin-Related Receptor	Q13585	752	ARARAHARDQAREQDRAHAC	Homo sapiens
1084	3081		Melatonin-Related Receptor	Q13585	753	DRASGHPKPHSRSSAY	Homo sapiens
1085	3081		Melatonin-Related Receptor	Q13585	754	HPKPAAADNPELSASHC	Homo sapiens

1086	3081	Melatonin-Related Receptor	Q13585	755	DDSDLPESASSPAAGPT	Homo sapiens
1087	3093	Metabotropic Glutamate Receptor 1	Q13255	879	DDYKIQMINIKSGVVRVC	Homo sapiens
1088	3093	Metabotropic Glutamate Receptor 1	Q13255	880	CRSNIFLNIFRRKKAG	Homo sapiens
1089	3093	Metabotropic Glutamate Receptor 1	Q13255	881	DTSTKILYNVEEEDA	Homo sapiens
1090	3093	Metabotropic Glutamate Receptor 1	Q13255	882	ERFKLLQEVVVEHERE	Homo sapiens
1091	3094	Metabotropic Glutamate Receptor 2	Q14416	891	DFVRASLSRGADGSRHIC	Homo sapiens
1092	3094	Metabotropic Glutamate Receptor 2	Q14416	892	CVATSEKVGRAMSRAAFEG	Homo sapiens
1093	3094	Metabotropic Glutamate Receptor 2	Q14416	893	CAAHSLRAVPFEQESK	Homo sapiens
1094	3094	Metabotropic Glutamate Receptor 2	Q14416	894	CDAMRPVNGRRLYKDF	Homo sapiens
1095	3094	Metabotropic Glutamate Receptor 2	Q14416	895	DAPFRPADTHNEVRFDR	Homo sapiens
1096	3094	Metabotropic Glutamate Receptor 2	Q14416	896	GKETAPERREVLTLC	Homo sapiens
1097	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	897	GGLFPINEKGTGTEEC	Homo sapiens
1098	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	898	EFVRASLTKVDEAEYMC	Homo sapiens
1099	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	899	RSNIRKSYDSVIRELL	Homo sapiens
1100	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	900	CDKHLAIDSSNYEQES	Homo sapiens
1101	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	902	GTRRYTLAEKRETVILKC	Homo sapiens
1102	3096	Metabotropic Glutamate Receptor 4	Q14833	909	PSSLGKPKGHPHMNSIRID	Homo sapiens
1103	3096	Metabotropic Glutamate Receptor 4	Q14833	910	CGSGGPPITIKPERVVVG	Homo sapiens
1104	3096	Metabotropic Glutamate Receptor 4	Q14833	911	CKLSRHALKKGSHVKK	Homo sapiens
1105	3096	Metabotropic Glutamate Receptor 4	Q14833	913	CPRMDPVDGTQLLKYI	Homo sapiens

1106	3096	Metabotropic Glutamate Receptor 4	Q14833	914	RIERMHWPGGGQLPRSC	Homo sapiens
1107	3097	Metabotropic Glutamate Receptor 5	P41594	883	KDYFDYINVGSWDNGEL	Homo sapiens
1108	3097	Metabotropic Glutamate Receptor 5	P41594	884	KMDDDEVWSKSNIIIRSVC	Homo sapiens
1109	3097	Metabotropic Glutamate Receptor 5	P41594	885	GETLRYKDRRLAQHKSEIEC	Homo sapiens
1110	3097	Metabotropic Glutamate Receptor 5	P41594	886	NPNQTAIVIKFPFKSTE	Homo sapiens
1111	3097	Metabotropic Glutamate Receptor 5	P41594	887	KALYDVAEAEHFAPA	Homo sapiens
1112	3097	Metabotropic Glutamate Receptor 5	P41594	888	RSPSPISLTHRAGSASRTD	Homo sapiens
1113	3097	Metabotropic Glutamate Receptor 5	P41594	889	RESPAAGPEAAAAPD	Homo sapiens
1114	3098	Metabotropic Glutamate Receptor 6	O15303	903	QALIRGRGDGDEGVRC	Homo sapiens
1115	3098	Metabotropic Glutamate Receptor 6	O15303	904	KLTSSTGSDSDSTRKC	Homo sapiens
1116	3098	Metabotropic Glutamate Receptor 6	O15303	905	DVEALQWSGDPHEVPSSLC	Homo sapiens
1117	3098	Metabotropic Glutamate Receptor 6	O15303	906	RFQVDEFTCEACPGDM	Homo sapiens
1118	3098	Metabotropic Glutamate Receptor 6	O15303	907	GARPPHSVIDYEEQRT	Homo sapiens
1119	3099	Metabotropic Glutamate Receptor 7	Q14831	917	CIAGSVRIPQERKDRITDFD	Homo sapiens
1120	3099	Metabotropic Glutamate Receptor 7	Q14831	918	NDEDIKQILAAAKRAD	Homo sapiens
1121	3099	Metabotropic Glutamate Receptor 7	Q14831	921	NIEDMQWKGKGVREIPASVC	Homo sapiens
1122	3099	Metabotropic Glutamate Receptor 7	Q14831	2693	IKQLLDTPNRAVVI	Homo sapiens
1123	3099	Metabotropic Glutamate Receptor 7	Q14831	2694	DPNIIIDYDEHKTM	Homo sapiens
1124	3100	Metabotropic Glutamate Receptor 8	O00222	922	CANGDPPIFTKPKIS	Homo sapiens
1125	3100	Metabotropic Glutamate	O00222	923	CPRMSTIDGKELLYIRA	Homo sapiens

1126	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	924	KVEDMQWAHREHTHPASVC	Homo sapiens
1127	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	925	CESLEINTSSIKTIVSY	Homo sapiens
1128	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	1894	KFYWILTMQRTHSQEYVHS	Homo sapiens
1129	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	231	DGNLSDPCGPNRTNLGGRDS	Homo sapiens
1130	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	232	DRINHQLLENLEAETAPLP	Homo sapiens
1131	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	233	IKALVTIPETFTQTVS	Homo sapiens
1132	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	234	RIRQNTNRDHPSTANTVDR	Homo sapiens
1133	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1325	SERSQPGAEGSPETPPGRC	Homo sapiens
1134	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1326	CRAPRILLQAYSWKEEE	Homo sapiens
1135	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1327	SSEGEPPGSEVVVKMP	Homo sapiens
1136	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1328	KQPPRSSPNTVKRPTKKGRD	Homo sapiens
1137	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1329	CRWDKRRWRKIPKRP GS	Homo sapiens
1138	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1330	EHNKIQNGKAPRDPVTENC	Homo sapiens
1139	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1331	DSTSVSAVASNMIRDDE	Homo sapiens
1140	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1332	ENTVSTSLGHSKDENSQITC	Homo sapiens
1141	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1333	DEKQINIVARKIVKMTK	Homo sapiens
1142	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1831	RIKDKKEPVANQDPVPSL	Homo sapiens
1143	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	218	SRSRVHKKRPEGPKKAKT	Homo sapiens
1144	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	219	KKPRPGGRPGGLRNGKLEEA	Homo sapiens
1145	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	220	DKDTSNESSSGSATQNTKER	Homo sapiens
1146	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	221	RPAANVARKEFASIRNQVRK	Homo sapiens

1147	3227	Muscarinic Acetylcholine Receptor M5	P08912	1334	KAEKRKPAHRAIFRSC	Homo sapiens
1148	3227	Muscarinic Acetylcholine Receptor M5	P08912	1335	CSSYPSEDEDKPAID	Homo sapiens
1149	3227	Muscarinic Acetylcholine Receptor M5	P08912	1336	KESPGEEFSAEETEFTV	Homo sapiens
1150	3227	Muscarinic Acetylcholine Receptor M5	P08912	1337	KFRLVVKADNGNETNNGC	Homo sapiens
1151	3227	Muscarinic Acetylcholine Receptor M5	P08912	1338	KEPSTKGLNPINPSHQM	Homo sapiens
1152	3378	Tachykinin Receptor 3	NP_001050.1	1757	PAAETWIDGGGGVGAD	Homo sapiens
1153	3378	Tachykinin Receptor 3	NP_001050.1	1759	PSQPWANILNQFVQPSWR	Homo sapiens
1154	3378	Tachykinin Receptor 3	NP_001050.1	1760	SRKKRATPRDPSFNGC	Homo sapiens
1155	3378	Tachykinin Receptor 3	NP_001050.1	2265	ADAVNLITASLAAGAA	Homo sapiens
1156	3378	Tachykinin Receptor 3	NP_001050.1	2290	SPSALGLPVASAPSPQP	Homo sapiens
1157	3380	Neuromedin B Receptor	P28336	824	ERDFLPASDGTITELVIRC	Homo sapiens
1158	3380	Neuromedin B Receptor	P28336	825	KTUJSAHNLPGEYNE	Homo sapiens
1159	3380	Neuromedin B Receptor	P28336	826	SEVARISSLDNSSFTAC	Homo sapiens
1160	3380	Neuromedin B Receptor	P28336	828	CGRKSYQERGTSYLLSSA	Homo sapiens
1161	3404	Neuropeptide Y Receptor Type 2	P49146	1057	RGELVPDPEPELIDST	Homo sapiens
1162	3404	Neuropeptide Y Receptor Type 2	P49146	1058	CIVYHLESKISKRSIF	Homo sapiens
1163	3404	Neuropeptide Y Receptor Type 2	P49146	1059	REYSUEIIPDFEIVAC	Homo sapiens
1164	3404	Neuropeptide Y Receptor Type 2	P49146	1060	NDHYHQRRQKTKMLVC	Homo sapiens
1165	3404	Neuropeptide Y Receptor Type 2	P49146	1061	CEQRDLAIHSEVSVTFKAKK	Homo sapiens
1166	3404	Neuropeptide Y Receptor Type 2	P49146	2297	MGPIGAEADENQTVEMKVE	Homo sapiens
1167	3404	Neuropeptide Y Receptor Type 2	P49146	2298	SEVSVTFKAKKNLEVRKNSG	Homo sapiens
1168	3405	Neuropeptide Y Receptor Type 4	P50391	1068	CVTVRQKEKANVTNLL	Homo sapiens
1169	3405	Neuropeptide Y Receptor Type 4	P50391	1069	KNHSKALEFLADKVC	Homo sapiens
1170	3405	Neuropeptide Y Receptor Type 4	P50391	1070	CYARIYRRLQRQGRVFKHG	Homo sapiens

1171	3405	Type 4 Neuropeptide Y Receptor	P50391	1071	CQQSAPLESEHLPST	Homo sapiens
1172	3405	Type 4 Neuropeptide Y Receptor	P50391	2275	SEHCQDSVDMVFVITS	Homo sapiens
1173	3406	Type 4 Neuropeptide Y Receptor	Q15761	1072	MIKRNQKTVNFUGN	Homo sapiens
1174	3406	Type 5 Neuropeptide Y Receptor	Q15761	1073	CGLSNKENRLEENEMI	Homo sapiens
1175	3406	Type 5 Neuropeptide Y Receptor	Q15761	1074	NLTLPKSKSGPQVKL	Homo sapiens
1176	3406	Type 5 Neuropeptide Y Receptor	Q15761	1075	SFIKHHRRYSKKTAC	Homo sapiens
1177	3406	Type 5 Neuropeptide Y Receptor	Q15761	1076	PERPSQENHSRLPEN	Homo sapiens
1178	3406	Type 5 Neuropeptide Y Receptor	Q15761	1077	CFEIKPEENS DVHELRV	Homo sapiens
1179	3408	Type 5 Neurotensin Receptor Type 1	P30989	935	RVLAAPSSSELDVNTDIYS	Homo sapiens
1180	3408	Neurotensin Receptor Type 1	P30989	936	CHPFKAKTLMRSRTKK	Homo sapiens
1181	3408	Neurotensin Receptor Type 1	P30989	937	GEQNRSDGQHAGGLVC	Homo sapiens
1182	3408	Neurotensin Receptor Type 1	P30989	938	RQAAEQGGQVCTVGGEHS	Homo sapiens
1183	3408	Neurotensin Receptor Type 1	P30989	939	CPVWRRRRKRPAFSRKADS	Homo sapiens
1184	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	940	CHPIRALDVRTSSKAQA	Homo sapiens
1185	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	941	PVAIMGSAQVEDEEIEC	Homo sapiens
1186	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	942	GVQPSSETAVAILRFC	Homo sapiens
1187	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	943	CASALRRDVQVSDRVRSAK	Homo sapiens
1188	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2123	TPEPRPTQPMASPRLGTFC	Homo sapiens
1189	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2124	TAVASLLKGRQGIYTE	Homo sapiens

1190	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2125	EMQIDINGGSLKPVRTAAK	Homo sapiens
1191	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2126	CSLGFQSPRKEIQWES	Homo sapiens
1192	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2127	SEGSDDASTIEHTASESC	Homo sapiens
1193	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2128	NPASGKVSQVGGQTSD	Homo sapiens
1194	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1486	CKKLHIPLKAGNDLDIRIK	Homo sapiens
1195	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1500	KIVKPLWTSFIQSVSYSKLL	Homo sapiens
1196	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1502	TAITKKIFKSHLKSSRNSTS	Homo sapiens
1197	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1503	VKKSSRNIFSIVFFVC	Homo sapiens
1198	3582	Oxytocin Receptor	CAA46097.1	244	AEGNRTAGPPRRNEALARVE	Homo sapiens
1199	3582	Oxytocin Receptor	CAA46097.1	245	RLAVLATWLGCLVASAP	Homo sapiens
1200	3582	Oxytocin Receptor	CAA46097.1	246	PEGAAAGDGGRRVALAR	Homo sapiens
1201	3582	Oxytocin Receptor	CAA46097.1	247	YLGRRIGETSASKSNSSS	Homo sapiens
1202	3589	Purinergic Receptor P2Y ₁ , G- protein coupled, 2 (P2RY2)	AAC04923.1	854	MQRIGDVLGSEDFRR	Homo sapiens
1203	3589	Purinergic Receptor P2Y ₁ , G- protein coupled, 2 (P2RY2)	AAC04923.1	855	ARGGRVTCCHDTSAPEL	Homo sapiens
1204	3589	Purinergic Receptor P2Y ₁ , G- protein coupled, 2 (P2RY2)	AAC04923.1	856	KPAYGTSGGLPRAKRK	Homo sapiens
1205	3589	Purinergic Receptor P2Y ₁ , G- protein coupled, 2 (P2RY2)	AAC04923.1	857	TGFPATPARRRLGLRRSD	Homo sapiens
1206	3595	Purinergic Receptor P2Y ₁	CAA07339.1	386	RYSGVVVYPLKSLRLKKKN	Homo sapiens
1207	3595	Purinergic Receptor P2Y ₁	CAA07339.1	387	SGTGVRKNKTKTCYD	Homo sapiens
1208	3595	Purinergic Receptor P2Y ₁	CAA07339.1	388	RALVYKDLDNSPURIKS	Homo sapiens
1209	3595	Purinergic Receptor P2Y ₁	CAA07339.1	389	DTERRRLSRATRKASRSE	Homo sapiens
1210	3596	Purinergic Receptor P2Y ₅	P43657	850	FVQSTHSQGNINASEAC	Homo sapiens
1211	3596	Purinergic Receptor P2Y ₅	P43657	851	MVLKTLTKPVTLRSKI	Homo sapiens
1212	3596	Purinergic Receptor P2Y ₅	P43657	852	TIQNSIKMKNNWSVRRSD	Homo sapiens
1213	3596	Purinergic Receptor P2Y ₅	P43657	853	SEVHGAEFIQHNQLTLK	Homo sapiens
1214	3597	Purinergic Receptor P2Y ₆	Q15077	874	CTSRRLTRTAVWTIN	Homo sapiens
1215	3597	Purinergic Receptor P2Y ₆	Q15077	875	AQERRGKAARMAVVV	Homo sapiens

1216	3597	Purinergic Receptor P2Y6	Q15077	876	TKTAYLAVRSTPGVPC	Homo sapiens
1217	3597	Purinergic Receptor P2Y6	Q15077	877	KKFRRPHQLQLTAK	Homo sapiens
1218	3597	Purinergic Receptor P2Y6	Q15077	2726	CHPLAPWHKRGRRAAW	Homo sapiens
1219	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	870	CFRMKMRSETAIFITN	Homo sapiens
1220	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	871	RTLRKPATLSQIGTNKK	Homo sapiens
1221	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	872	ESFQKSFYNAHIRMES	Homo sapiens
1222	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	873	KTETPLITKPSLPAIQEE	Homo sapiens
1223	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	1895	SSLRPRLGNATANNTICVD	Homo sapiens
1224	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	248	KAKVQCELNITACLQEGE	Homo sapiens
1225	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	249	ESUMQDDPQINSIEATSVDK	Homo sapiens
1226	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	250	NSEQDCLPHSFHEETKE	Homo sapiens
1227	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	251	EETKEDSGRQGGDILMEKPS	Homo sapiens
1228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	761	CEKRLKEVLQRPASIMESDK	Homo sapiens
1229	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	762	ESEEDKEAPTGSRYRGRPC	Homo sapiens
1230	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	763	LYSGATLDEAERLIEELR	Homo sapiens
1231	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	765	KDDGFLNGSCSGLDEEASG	Homo sapiens
1232	3732	PACAP Receptor Type 1	P41586	944	CLEKIQRANELMGFNDSS	Homo sapiens
1233	3732	PACAP Receptor Type 1	P41586	945	CPELFRIFNPQVWETET	Homo sapiens
1234	3732	PACAP Receptor Type 1	P41586	946	DSNSLDLSDMGVSRNC	Homo sapiens
1235	3732	PACAP Receptor Type 1	P41586	948	IKRKWRSWKVNRYFAVD	Homo sapiens
1236	3732	PACAP Receptor Type 1	P41586	2292	ESDFGDSNSLDLSDMGVSR	Homo sapiens
1237	3844	Apelin Receptor	AAA18954.1	62	RTTGDLENTIKVQC	Homo sapiens
1238	3844	Apelin Receptor	AAA18954.1	63	RSSREKRRSADIFAS	Homo sapiens
1239	3844	Apelin Receptor	AAA18954.1	64	QITAGHFRKERIEGLRKRRR	Homo sapiens
1240	3844	Apelin Receptor	AAA18954.1	65	GPNMKGKGEGMQHEKSIPYSQ	Homo sapiens

1241	3845	Chemokine-Like Receptor 1 (CMKLR1)	LR39	447	RMEDEDYNTSISYGDEYPD	Homo sapiens
1242	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	448	DSIVVLEDLSPLEARVTR	Homo sapiens
1243	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	449	LTVCKLHRNRLAKTKKPFK	Homo sapiens
1244	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	450	RSFTKMSSMNERTSMNERE	Homo sapiens
1245	3846	Sphingolipid Receptor Edg1	AA52336.1	1010	TRSRRLTRKNISKASRSSE	Homo sapiens
1246	3846	Sphingolipid Receptor Edg1	AA52336.1	1011	CPSGDSAGKFKRPIIAG	Homo sapiens
1247	3846	Sphingolipid Receptor Edg1	AA52336.1	1012	CPSGDSAGKFKRPIIAGME	Homo sapiens
1248	3846	Sphingolipid Receptor Edg1	AA52336.1	1013	RSKSDNSSHPQKDEGD	Homo sapiens
1249	3847	Sphingolipid Receptor Edg3	Q99500	1028	ERHLTIKIMRPYDANK	Homo sapiens
1250	3847	Sphingolipid Receptor Edg3	Q99500	1029	LVKSSSRKVANHINSE	Homo sapiens
1251	3847	Sphingolipid Receptor Edg3	Q99500	1030	SPKVKEDLPHDTPSSC	Homo sapiens
1252	3847	Sphingolipid Receptor Edg3	Q99500	1031	CLVGRGARASPIQPALD	Homo sapiens
1253	3847	Sphingolipid Receptor Edg3	Q99500	1752	REHYGVVWGLAGRLKEASE	Homo sapiens
1254	3848	C-C Chemokine Receptor 9	P51686	958	RAHTWREKRLLYSKMVC	Homo sapiens
1255	3848	C-C Chemokine Receptor 9	P51686	959	KEESGIAICTMVVPSDEST	Homo sapiens
1256	3848	C-C Chemokine Receptor 9	P51686	960	QAKKSSKHKALKVTTT	Homo sapiens
1257	3848	C-C Chemokine Receptor 9	P51686	961	GERFRDLVKTILNLC	Homo sapiens
1258	3849	G Protein-Coupled Receptor GPR1	AA64592.1	74	ENVSYDLVYSLESLEEK	Homo sapiens
1259	3849	G Protein-Coupled Receptor GPR1	AA64592.1	75	RDTFEENNHTLCYNINFQKHD	Homo sapiens
1260	3849	G Protein-Coupled Receptor GPR1	AA64592.1	76	SKKFQARFRSSVAELK	Homo sapiens
1261	3849	G Protein-Coupled Receptor GPR1	AA64592.1	77	GTVSEQLRNSETKNLC	Homo sapiens
1262	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1087	HPLRRRISRLSAYAV	Homo sapiens
1263	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1088	CEEFWGSQERQRLYA	Homo sapiens
1264	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1089	SWRVSVKLRNRVVPGC	Homo sapiens
1265	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1090	CVTQSQADWDRARRR	Homo sapiens
1266	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1091	DSFREELRKLVAWPRKIA	Homo sapiens

1267	3851	Receptor 10 (GPR10) G Protein-Coupled Receptor GPR12	AAA91630.1	78	GCIPSSLAGRAIRSPSD	Homo sapiens
1268	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	79	ENISAAVSSRRVPAVEPEPE	Homo sapiens
1269	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	307	STCSVVRPLTKNNAA	Homo sapiens
1270	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	308	QSEATKLVITIGLIVAS	Homo sapiens
1271	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	84	KQKENECLGDVPEVLQE	Homo sapiens
1272	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	85	SMNNRTVQHGVITSL	Homo sapiens
1273	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	86	ETILKYDFFPSCDMRKDLR	Homo sapiens
1274	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	87	GRSVHVDFSSSESQRSRHGS	Homo sapiens
1275	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1511	CLKNYDFGSSTEISDSHLTK	Homo sapiens
1276	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1512	KALSTFIHAEDFARRRKRS	Homo sapiens
1277	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1612	ATSPNSDIRETHSHVP	Homo sapiens
1278	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1613	LMGALHFPGSRRLUD	Homo sapiens
1279	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1615	GLPTLLSRELTUDDKPYC	Homo sapiens
1280	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	93	DRYMAIVGPKYAKELKNIC	Homo sapiens
1281	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	94	KDPDKDSTPATCLKISD	Homo sapiens
1282	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	95	GRTSKLKPKVKEKSIR	Homo sapiens
1283	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	96	RNYLRSLSLRKSFSGSLR	Homo sapiens
1284	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	97	KVSRKAKKMIASWIFD	Homo sapiens
1285	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	98	DGRTVRRRTMINIVPTIKVK	Homo sapiens

1286	3855	G Protein-Coupled Receptor GPR19	AA800316.1	99	RRGMKETFCMSSMKC	Homo sapiens
1287	3855	G Protein-Coupled Receptor GPR19	AA800316.1	100	KTIKDSIYDSFDREAKEK	Homo sapiens
1288	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1152	ALLFSQDGGQREGQRRC	Homo sapiens
1289	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1153	SGDEEDAYSAEPLPELC	Homo sapiens
1290	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1154	ALLDADLLAARERC	Homo sapiens
1291	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1155	RRLRGSSPSGPGQPRRG	Homo sapiens
1292	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	101	KSGRHHLSAGPHALTQ	Homo sapiens
1293	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	102	RTNASGLEVPLHFLARLDE	Homo sapiens
1294	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	103	SRPGLLHQGRQRRVRAMQ	Homo sapiens
1295	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	104	GQHGEREPSSGDVVSIMHRSS	Homo sapiens
1296	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	105	SERQARFSSQSGETGEVQAC	Homo sapiens
1297	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	106	DPYTVRSKGPLNGC	Homo sapiens
1298	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	107	NSTLDGNGSSHPCILL	Homo sapiens
1299	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	108	CASQITANDPYTVRSK	Homo sapiens
1300	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	109	ENMQSESNTVRDDIDD	Homo sapiens
1301	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	111	RRAVKRHRERRERQKRVFRM	Homo sapiens
1302	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	112	TRQKFQKVLKSKMKKR	Homo sapiens
1303	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	113	DPKRNKKTIFEDSEIREKR	Homo sapiens
1304	3860	G Protein-Coupled Receptor SLG/MCH1	AAH01736.1	1532	CAPGGGGRRWRLPQPAWVEG	Homo sapiens
1305	3860	G Protein-Coupled	AAH01736.1	1533	EASLLTGPNASNTSDGPDN	Homo sapiens

1306	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1539	KGVGRAVGLGGSGCCQATE	Homo sapiens
1307	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1565	RMTSSVAPASQRSIRLTKR	Homo sapiens
1308	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1567	RAVSNQAIADEERTESKG	Homo sapiens
1309	3861	Receptor SLC/MCH1 G Protein-Coupled	O00155	376	RGLQLPLPGGQDSQCGEEP	Homo sapiens
1310	3861	Receptor GPR25 G Protein-Coupled	O00155	377	CRISRRLRPPHVGRARRNS	Homo sapiens
1311	3861	Receptor GPR25 G Protein-Coupled	O00155	378	RTGRLARRISSASSLSRDD	Homo sapiens
1312	3861	Receptor GPR25 G Protein-Coupled	O00155	483	DYSGLDGLEELELCPAGD	Homo sapiens
1313	3862	Receptor GPR25 G Protein-Coupled	AAB60402.1	118	TVWCLLGDAHSPPLYT	Homo sapiens
1314	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	119	EGPTGPAAPLPSPKAWD	Homo sapiens
1315	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	120	HFAAVFCIGSAEMSL	Homo sapiens
1316	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	121	GLITCGVVVPLSKNH	Homo sapiens
1317	3863	Receptor GPR3 G Protein-Coupled	O00270	1157	REPEKQPKLQRAQALVTLV	Homo sapiens
1318	3863	Receptor GPR31 G Protein-Coupled	O00270	1158	CHSFYSRADGCSFSIIWQEA	Homo sapiens
1319	3863	Receptor GPR31 G Protein-Coupled	O00270	1159	QNLGSCRALCAVAHTSDVTG	Homo sapiens
1320	3863	Receptor GPR31 G Protein-Coupled	O00270	1160	SPTFRSSYRRVFHTLRGKGQ	Homo sapiens
1321	3864	Receptor GPR31 G Protein-Coupled	AAA98457.1	143	DELFRDRYNHTCFEKFPMIE	Homo sapiens
1322	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	144	LRAVRGVSSTERQEKAQIKR	Homo sapiens
1323	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	145	RSDVAKALHNLRLFLASDK	Homo sapiens
1324	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	146	NASLTLETPLTSKRNSTAK	Homo sapiens

1325	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	166	FQYLVPSQTVSLLTVG	Homo sapiens
1326	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	167	CLAERAACSVVRPLARSH	Homo sapiens
1327	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	168	HLVVRICQVWVRHAH	Homo sapiens
1328	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	169	EIQRALWLLCGCFQSK	Homo sapiens
1329	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	171	ATAESRRVAGRTYSAAR	Homo sapiens
1330	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	172	RLDDEQGRRCQCVLVFPQPE	Homo sapiens
1331	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	173	RLHAMRLDSHAKALERAKKR	Homo sapiens
1332	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	174	DASFRRLRQLITC	Homo sapiens
1333	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	175	NVSQDNGTGHNAITFSEP	Homo sapiens
1334	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	176	RSRHMPWRTYRGAKVAS	Homo sapiens
1335	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	177	VLRLSGAKALGKARRK	Homo sapiens
1336	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	178	LDDNFRKNFRSILRC	Homo sapiens
1337	3869	G Protein-Coupled Receptor HM74	BAA01721.1	179	QDHFLIEDKKNCVFRDD	Homo sapiens
1338	3869	G Protein-Coupled Receptor HM74	BAA01721.1	180	ARIWSLRGRQMDRHAQIKR	Homo sapiens
1339	3869	G Protein-Coupled Receptor HM74	BAA01721.1	181	CLQRKMTGEPDNNRSTVE	Homo sapiens
1340	3869	G Protein-Coupled Receptor HM74	BAA01721.1	182	DPNKTGGAPEALMANSGE	Homo sapiens
1341	3869	G Protein-Coupled Receptor HM74	BAA01721.1	183	SNHSHKKGHCHEPASLEKQ	Homo sapiens
1342	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1453	RQRQMDRHAQIKRAITIMV	Homo sapiens
1343	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1454	SPSYLGPTSNHSHKKG	Homo sapiens
1344	3870	G Protein-Coupled	Q15743	1192	AVRRSHGTQKSRKQDI	Homo sapiens

1345	3870	Receptor OGR1	Q15743	1193	LMHEEVIEDENGHRVC	Homo sapiens
1346	3870	G Protein-Coupled Receptor OGR1	Q15743	1194	CFVSETHRDLARLG	Homo sapiens
1347	3870	G Protein-Coupled Receptor OGR1	Q15743	1195	CSRTGRAREAYPLGAPEASG	Homo sapiens
1348	3921	Prostaglandin Receptor	P43119	1188	CRMVYRQQRHGGSLGPRPRT	Homo sapiens
1349	3921	Prostaglandin Receptor	P43119	1189	CFIQAVAPDSSEMGGD	Homo sapiens
1350	3921	Prostaglandin Receptor	P43119	1190	ASGRDRPRAPSPVKGEGSC	Homo sapiens
1351	3921	Prostaglandin Receptor	P43119	1191	SAWGEGQVEPLPTQQ	Homo sapiens
1352	3923	Prostaglandin D2 Receptor	Q13258	458	KSPFYRCQNTTSVEKGN SAV	Homo sapiens
1353	3923	Prostaglandin D2 Receptor	Q13258	459	RNLYAMHRRRLQRHPRSC	Homo sapiens
1354	3923	Prostaglandin D2 Receptor	Q13258	503	CAEPRAADGREASQPLEEL	Homo sapiens
1355	3923	Prostaglandin D2 Receptor	Q13258	504	KDVKEKNITSEAEEDLRALR	Homo sapiens
1356	3924	Prostaglandin E Receptor EP1	P34995	962	AQAAGRLRRRRSATTF	Homo sapiens
1357	3924	Prostaglandin E Receptor EP1	P34995	963	CVGVTRPLLHAARVSVARAR	Homo sapiens
1358	3924	Prostaglandin E Receptor EP1	P34995	964	CNTLSGLALHRARWRR	Homo sapiens
1359	3924	Prostaglandin E Receptor EP1	P34995	965	ASGPDSSRRRWGAHGPR	Homo sapiens
1360	3924	Prostaglandin E Receptor EP1	P34995	966	SGSARRARAHDEVEMVGQ	Homo sapiens
1361	3925	Prostaglandin E Receptor EP2	AAD44177.1	967	IALALLARRWRGVDVGC	Homo sapiens
1362	3925	Prostaglandin E Receptor EP2	AAD44177.1	968	CETRQWLPPGESPAISSV	Homo sapiens
1363	3925	Prostaglandin E Receptor EP2	AAD44177.1	969	GPSLGSGRGGPGARRRGE	Homo sapiens
1364	3925	Prostaglandin E Receptor EP2	AAD44177.1	971	NETSSRKEKWDLQALR	Homo sapiens
1365	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	972	ERSAEARGNLTIRPPGSGEDC	Homo sapiens
1366	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	973	SRSYRRRESKRKKSFLLC	Homo sapiens
1367	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	974	CRAKATASGSSAQWGR	Homo sapiens

1368	3926	EP3	Prostaglandin E2 Receptor	CAB52459.1	975	KFCQVANAVSSCSNDGQ	Homo sapiens
1369	3927	EP3	Prostaglandin E Receptor	P35408	382	RLSDFRRRRSFRRIAGAE	Homo sapiens
1370	3927	EP4	Prostaglandin E Receptor	P35408	383	EREVSKNPDLQAIRAS	Homo sapiens
1371	3927	EP4	Prostaglandin E Receptor	P35408	384	DSQRTSSAMSGHSRFSISRE	Homo sapiens
1372	3927	EP4	Prostaglandin E Receptor	P35408	385	RTLRISETSDSSQGQDSE	Homo sapiens
1373	3928	Receptor	Prostaglandin F2-alpha	P43088	1046	ILMIKAYQRRFRQKSKAS	Homo sapiens
1374	3928	Receptor	Prostaglandin F2-alpha	P43088	1047	ASDKEWIRFDQSNVLC	Homo sapiens
1375	3928	Receptor	Prostaglandin F2-alpha	P43088	1048	TKPIFHSTKITSKHVK	Homo sapiens
1376	3928	Receptor	Prostaglandin F2-alpha	P43088	1049	CFYNTEDIKDWEDRFY	Homo sapiens
1377	3928	Receptor	Prostaglandin F2-alpha	P43088	1050	RVKFKSQHRQGRSHLE	Homo sapiens
1378	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	252	QGTNRSSKGRSLUGKVDGTS	Homo sapiens
1379	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	253	QRYWVIVNPMGHSRKKAN	Homo sapiens
1380	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	255	SHDFRDHAKNALLCRSVR	Homo sapiens
1381	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	256	VSLTSKKHSRKSSSYS	Homo sapiens
1382	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	257	ENDTNNLAKPTLPIKTFR	Homo sapiens
1383	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	258	CPEESASHLHVKNATMG	Homo sapiens
1384	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	260	QPDITTCVDVHNTCESSSP	Homo sapiens
1385	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	261	MSKTRNHSTAYLTK	Homo sapiens
1386	4090	G Protein-Coupled Receptor GPR17	G Protein-Coupled Receptor GPR17	CAB08108.1	88	RDHKSGETPANVFLMH	Homo sapiens

1387	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	90	RSLRQGLRVEKRLTKAVR	Homo sapiens
1388	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	91	RSHGASCATQRILALNR	Homo sapiens
1389	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	92	FEKTNESLSAKSE	Homo sapiens
1390	4254	Rhodopsin	P08100	1051	RNCMLTICCGKNPLGD	Homo sapiens
1391	4254	Rhodopsin	P08100	1052	CGIDYYTLKPEVNNESFVI	Homo sapiens
1392	4254	Rhodopsin	P08100	1053	CWVPYASVAFYIFTHQGSN	Homo sapiens
1393	4254	Rhodopsin	P08100	1055	VLGGFTSLYLSLHG	Homo sapiens
1394	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1042	ATSSLLRRWPYGSDDC	Homo sapiens
1395	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1043	CTLDYSKGDNRNFTSFL	Homo sapiens
1396	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1044	MEQKLGKSGHLQVNTT	Homo sapiens
1397	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1045	MVCRGIWQCLSPQKRE	Homo sapiens
1398	4321	Secretin Receptor	P47872	950	CLQELSRQETGDLGTEQ	Homo sapiens
1399	4321	Secretin Receptor	P47872	951	CPRFLRLMSTRNGSLFRN	Homo sapiens
1400	4321	Secretin Receptor	P47872	952	CGVNVNDSSNEKRHSY	Homo sapiens
1401	4321	Secretin Receptor	P47872	954	KDAVLFSDDVITYCDAH	Homo sapiens
1402	4321	Secretin Receptor	P47872	956	MRLKLTQETRGNEVSH	Homo sapiens
1403	4480	Somatostatin Receptor Type 1	P30872	994	EEGGRNASQNGTLEGG	Homo sapiens
1404	4480	Somatostatin Receptor Type 1	P30872	996	CLSWMDNAAEEPVDY	Homo sapiens
1405	4480	Somatostatin Receptor Type 1	P30872	997	EDFQPENLESGGVFRNGTC	Homo sapiens
1406	4480	Somatostatin Receptor Type 1	P30872	2616	LSVDVNMFTSIYC	Homo sapiens
1407	4480	Somatostatin Receptor Type 1	P30872	2618	RAYSVDFQPENILES	Homo sapiens
1408	4481	Somatostatin Receptor Type 2	P30874	998	RSNQWGRSSCTINWPGE	Homo sapiens
1409	4481	Somatostatin Receptor Type 2	P30874	999	KVKSSGIRVGSSEKRYKSE	Homo sapiens
1410	4481	Somatostatin Receptor Type 2	P30874	1000	CLVKVSGTDDGERSDS	Homo sapiens

1411	4481	2	Somatostatin Receptor Type P30874	1001	KQDKSRLNETETQRT	Homo sapiens
1412	4481	2	Somatostatin Receptor Type P30874	2276	DMADEPLNGSHWLSIP	Homo sapiens
1413	4482	2	Somatostatin Receptor Type P32745	1002	KVRSAGRRVWAPSCQR	Homo sapiens
1414	4482	3	Somatostatin Receptor Type P32745	2622	REGGKGKEMNGRVSQI	Homo sapiens
1415	4482	3	Somatostatin Receptor Type P32745	2624	TTSEPENASSAWPPD	Homo sapiens
1416	4482	3	Somatostatin Receptor Type P32745	2626	QPGTSGGQERPPSRVA	Homo sapiens
1417	4483	3	Somatostatin Receptor Type P31391	1007	IFADTRPARGGQAVAC	Homo sapiens
1418	4483	4	Somatostatin Receptor Type P31391	1008	CLLEGAGGAEEPLDY	Homo sapiens
1419	4483	4	Somatostatin Receptor Type P31391	2627	KMRAVALRAGWQRR	Homo sapiens
1420	4483	4	Somatostatin Receptor Type P31391	2631	CRAVLSVDGLNMFVS	Homo sapiens
1421	4483	4	Somatostatin Receptor Type P31391	2633	CLVGLVGNALVIFVL	Homo sapiens
1422	4484	5	Somatostatin Receptor Type NP_001044.1	2637	SLPILLVFADVQEGGTC	Homo sapiens
1423	4484	5	Somatostatin Receptor Type NP_001044.1	2638	CLRKSGGAKDADATEP	Homo sapiens
1424	4484	5	Somatostatin Receptor Type NP_001044.1	2639	RIRGQGEATPPAHRAAA	Homo sapiens
1425	4484	5	Somatostatin Receptor Type NP_001044.1	2643	RVAKLASAAAWVLSLC	Homo sapiens
1426	4552	5	Tachykinin Receptor 1 AAA36641.1	1339	CMIEWPEHPNKIYKV	Homo sapiens
1427	4552	5	Tachykinin Receptor 1 AAA36641.1	1340	CPFSAGDYEGLMKSTRYL	Homo sapiens
1428	4552	5	Tachykinin Receptor 1 AAA36641.1	1341	KVSRLETISTIVGAHEE	Homo sapiens
1429	4552	5	Tachykinin Receptor 1 AAA36641.1	1342	EPEDGPKATPSSDLTSNC	Homo sapiens
1430	4687	5	Thrombin Receptor P25116	1202	EDEEKNEGLTEYRLV	Homo sapiens
1431	4687	5	Thrombin Receptor P25116	2582	AVANRSKSRALFLSAAVFC	Homo sapiens
1432	4687	5	Thrombin Receptor P25116	2583	SINKSSPLQKQLPAFISE	Homo sapiens

1433	4687	Thrombin Receptor	P25116	2621	DPRSFLLRNPNDKVEPRWE	Homo sapiens
1434	4734	Thyrotropin Releasing Hormone Receptor	P34981	1196	PSDPKENSKTWKNDDST	Homo sapiens
1435	4734	Thyrotropin Releasing Hormone Receptor	P34981	1197	CFNSTVSSRKQVTKMLA	Homo sapiens
1436	4734	Thyrotropin Releasing Hormone Receptor	P34981	1198	RAAFRKLNCNCKGKPT	Homo sapiens
1437	4734	Thyrotropin Releasing Hormone Receptor	P34981	1199	KPANYVALNYSVIKE	Homo sapiens
1438	4734	Thyrotropin Releasing Hormone Receptor	P34981	1200	KESDHFSTELDDITVD	Homo sapiens
1439	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1771	EIQKNKPRNDDIFKII	Homo sapiens
1440	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1772	SYRPSDNVSSSTKKPAPC	Homo sapiens
1441	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1773	LNSSTEDGKIKRIQDDC	Homo sapiens
1442	4946	Angiotensin II Type 2 Receptor	P50052	1321	CSQKPSDKHLDAPIL	Homo sapiens
1443	4946	Angiotensin II Type 2 Receptor	P50052	1322	DRYQSVVYPFLSQRRN	Homo sapiens
1444	4946	Angiotensin II Type 2 Receptor	P50052	1323	RKHLLKTNISYGKNRITRD	Homo sapiens
1445	4946	Angiotensin II Type 2 Receptor	P50052	1324	RVPIITWLQGKRESMSC	Homo sapiens
1446	5072	Pyrimidinergic Receptor P2Y4	P51582	1142	CHDITRPEEFHDYVHFSSA	Homo sapiens
1447	5072	Pyrimidinergic Receptor P2Y4	P51582	1145	YLLTGDKYRRQLRQLC	Homo sapiens
1448	5072	Pyrimidinergic Receptor P2Y4	P51582	2696	HPLRALRWGRPRLAG	Homo sapiens
1449	5072	Pyrimidinergic Receptor P2Y4	P51582	2697	HIITRIYVLARLLEADC	Homo sapiens
1450	5117	Vasopressin V1A Receptor	AAA62271.1	262	REAEALGEGNGPPRDVRNEE	Homo sapiens
1451	5117	Vasopressin V1A Receptor	AAA62271.1	263	NVRGKIASRQSKGAEQ	Homo sapiens
1452	5117	Vasopressin V1A Receptor	AAA62271.1	264	QNMKEKFNKEDTDSMSRRQ	Homo sapiens
1453	5117	Vasopressin V1A Receptor	AAA62271.1	265	RQIFYNNRSPNTSGMWKD	Homo sapiens
1454	5118	Vasopressin V1B Receptor	AAA65687.1	266	NATPWLGKRDDEELAKVE	Homo sapiens
1455	5118	Vasopressin V1B Receptor	AAA65687.1	267	TRGLPSRVSSINTISRAKIR	Homo sapiens

1456	5118	Vasopressin V1B Receptor	AAA65687.1	268	QPRMRRRLSDGSLSRH	Homo sapiens
1457	5118	Vasopressin V1B Receptor	AAA65687.1	269	ESPRDLEADGEGTAET	Homo sapiens
1458	5119	Vasopressin V2 Receptor	CAA77746.1	270	SNSSQERPLDTRDPLARAE	Homo sapiens
1459	5119	Vasopressin V2 Receptor	CAA77746.1	271	RHGSGAHWNRPVLVAWAFS	Homo sapiens
1460	5119	Vasopressin V2 Receptor	CAA77746.1	272	CQVLIFREIHASLVPGPSE	Homo sapiens
1461	5119	Vasopressin V2 Receptor	CAA77746.1	273	RGRTPPSLGPQDESC	Homo sapiens
1462	5133	Peropsin	O14718	1147	KNEDGSVFSQTEHNIV	Homo sapiens
1463	5133	Peropsin	O14718	1148	IKYKELRTPNTAIJIN	Homo sapiens
1464	5133	Peropsin	O14718	1149	RKNDRSFVSVMIVIA	Homo sapiens
1465	5133	Peropsin	O14718	1150	CTESLNIRDWSDQIDVTK	Homo sapiens
1466	5133	Peropsin	O14718	1151	VANKKRRAMLAMFKC	Homo sapiens
1467	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	987	CGPAGRTSSRSQSLRSDAR	Homo sapiens
1468	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	988	EENRDKWEEAQLAGPN	Homo sapiens
1469	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	989	CRVVDREQEGNGDSGG	Homo sapiens
1470	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	990	KRDKAPKSSFVGDGDI	Homo sapiens
1471	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	991	RKLQHAAEKDKEVLGP	Homo sapiens
1472	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	981	CLRPSPEEAVAQAESEVGR	Homo sapiens
1473	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	982	GSSNDLFTTEMRVYEE	Homo sapiens
1474	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	983	MARDGISDKSKQIRAGSERC	Homo sapiens
1475	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	984	EDAPRARPEGTPRRRAAK	Homo sapiens
1476	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	985	RSRTMPRTVPGSTMKMGSL	Homo sapiens
1477	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	986	KREKRWVS/SSGGAAERSVC	Homo sapiens
1478	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	976	RRVFPTNFPGLQKKGE	Homo sapiens
1479	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	977	CNLTREAKRPPKKEFG	Homo sapiens
1480	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	978	KLKHRAGQMSEPHSGLTKC	Homo sapiens

1481	5521	Inhibitor 3	Brain-Specific Angiogenesis Inhibitor 3	O60242	979	CTDDNLRGADMIVHPQER	Homo sapiens
1482	5521	Inhibitor 3	Brain-Specific Angiogenesis Inhibitor 3	O60242	980	SRSETGSTSMSSLERR	Homo sapiens
1483	6031	Inhibitor 3	SIV/HIV Receptor BONZO	O00574	1101	NDSSQEEHQDFLQFSK	Homo sapiens
1484	6031		SIV/HIV Receptor BONZO	O00574	1102	KATKAYNQQAQRMTWG	Homo sapiens
1485	6031		SIV/HIV Receptor BONZO	O00574	1103	KTLHAGGFQKHRSLK	Homo sapiens
1486	6031		SIV/HIV Receptor BONZO	O00574	1104	SLKFKNFWKLVKDIGC	Homo sapiens
1487	6031		SIV/HIV Receptor BONZO	O00574	1105	KSSEDNSKTFASHNV	Homo sapiens
1488	6204		Lysophosphatidic Acid Receptor Edg4	AAC27728.1	66	ERHRSVMAVQLHSRLPRGR	Homo sapiens
1489	6204		Lysophosphatidic Acid Receptor Edg4	AAC27728.1	67	RRRVQRMAEHVSHPRVRE	Homo sapiens
1490	6204		Lysophosphatidic Acid Receptor Edg4	AAC27728.1	68	NAAVYSCRDAEMRIRFRR	Homo sapiens
1491	6204		Lysophosphatidic Acid Receptor Edg4	AAC27728.1	69	RGSTRESVHYTSSAQGGAST	Homo sapiens
1492	6213	Inhibitor 3	C-C Chemokine Receptor 5	AAC50598.1	38	YSQYQFWKNFQTLK	Homo sapiens
1493	6213		C-C Chemokine Receptor 5	AAC50598.1	39	QQEAPERASSVYTRSTGEQE	Homo sapiens
1494	6213		C-C Chemokine Receptor 5	AAC50598.1	40	RSQKEGLHYTCSSHFPYSQ	Homo sapiens
1495	6213		C-C Chemokine Receptor 5	AAC50598.1	309	MDYQVSSPIYDINYYTSEPC	Homo sapiens
1496	6363		Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1092	EDEYDVLIEGELEDEAEQC	Homo sapiens
1497	6363		Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1093	KGNFFSARRRVPCGIITSVL	Homo sapiens
1498	6363		Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1094	MRKTLRFREQRYSLFKL VFA	Homo sapiens
1499	6363		Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1096	RSNTPLQPRGQSAQGSTRE	Homo sapiens
1500	6446	Inhibitor 3	Pael Receptor (GPR37)	AAC51281.1	127	GPGNSARDVLRARAPREEQG	Homo sapiens
1501	6446		Pael Receptor (GPR37)	AAC51281.1	129	DPGGPRRGNSTNRRVRLKNP	Homo sapiens
1502	6446		Pael Receptor (GPR37)	AAC51281.1	130	LRQLSKEDLGFSGRAPAERC	Homo sapiens
1503	6446		Pael Receptor (GPR37)	AAC51281.1	131	PRGAVISGRSQEQSVKTVPG	Homo sapiens
1504	6446		Pael Receptor (GPR37)	AAC51281.1	1781	CIGKSTVTSDDDNDNEYITE	Homo sapiens
1505	6446		Pael Receptor (GPR37)	NP_005293.1	1806	CIGKSTVTSDDDNDNEYITE	Homo sapiens
1506	6536		Purative Neurotransmitter Receptor (PNR)	OT4804	319	TDVWETRLSQWLEEMPC	Homo sapiens

1507	6536	Putative Neurotransmitter Receptor (PNR)	O14804	320	KSLAGAAKHERKAAKT	Homo sapiens
1508	6536	Putative Neurotransmitter Receptor (PNR)	O14804	321	RKALKLTLSQKVFSPQTR	Homo sapiens
1509	6536	Putative Neurotransmitter Receptor (PNR)	O14804	485	HPAAFCYQVNGSCPR	Homo sapiens
1510	6777	G Protein-Coupled Receptor TM7SF1	O60478	788	KAKSKYSPELLKYRLP	Homo sapiens
1511	6777	G Protein-Coupled Receptor TM7SF1	O60478	790	KTGNWERKVIVSVRVA	Homo sapiens
1512	6777	G Protein-Coupled Receptor TM7SF1	O60478	791	KSVHSFDYDWNVSDQAD	Homo sapiens
1513	6777	G Protein-Coupled Receptor TM7SF1	O60478	792	RVRNPTKDLTNPGMVP	Homo sapiens
1514	6777	G Protein-Coupled Receptor TM7SF1	O60478	793	RYDSDDDLAWNIAPOGLQ	Homo sapiens
1515	6853	Purinergic Receptor P2Y11	O43190	865	PTLSFSLKRPQQGAGNC	Homo sapiens
1516	6853	Purinergic Receptor P2Y11	O43190	866	GALGRAVLRSPGMTVAE	Homo sapiens
1517	6853	Purinergic Receptor P2Y11	O43190	867	MRVLNVDDARRRWSTRC	Homo sapiens
1518	6853	Purinergic Receptor P2Y11	O43190	868	CPGYRDSWNPEDAKSTGQA	Homo sapiens
1519	6853	Purinergic Receptor P2Y11	O43190	2299	CPANFLAAADDKLSGFQGD	Homo sapiens
1520	6853	Purinergic Receptor P2Y11	O43190	2300	ASNGALYRFSIRKQIR	Homo sapiens
1521	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	137	CNRSSTRHHEQPETSN	Homo sapiens
1522	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	139	PNQIRRIMAAAKPKHD	Homo sapiens
1523	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	140	EKRLRVHAHSTTDSAR	Homo sapiens
1524	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	141	VQRPLLFASRRQSSARTEK	Homo sapiens
1525	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	142	QSEAEFPQSKSQSLLESLEP	Homo sapiens
1526	7221	Galanin Receptor GalR2	AAC39634.1	197	NLTVCHPAWSAPRRRAMD	Homo sapiens
1527	7221	Galanin Receptor GalR2	AAC39634.1	198	RAVDPVAAGSGARRAKRK	Homo sapiens
1528	7221	Galanin Receptor GalR2	AAC39634.1	199	GRAPGRASGRVCAAARG	Homo sapiens
1529	7221	Galanin Receptor GalR2	AAC39634.1	200	ERESDILLHMSEAAAGALRPC	Homo sapiens
1530	7246	Orexin Receptor 1	AAC39601.1	235	DQLGLDEQGLSGEPQP	Homo sapiens
1531	7246	Orexin Receptor 1	AAC39601.1	236	EPSATPGAGMGVPPGSR	Homo sapiens

1532	7246	Orexin Receptor 1	AAC39601.1	237	KRPDQLGDLQGLSGEPQ	Homo sapiens
1533	7246	Orexin Receptor 1	AAC39601.1	239	KAPSPRSSASHKSLSLQSRRC	Homo sapiens
1534	7247	Orexin Receptor 2	AAC39602.1	240	SELNETQEPFLNPTDYDDEE	Homo sapiens
1535	7247	Orexin Receptor 2	AAC39602.1	241	KWKPLQPVSQPRGPGQ	Homo sapiens
1536	7247	Orexin Receptor 2	AAC39602.1	242	TKSRMSAVAAEIKQIRA	Homo sapiens
1537	7247	Orexin Receptor 2	AAC39602.1	243	RQEDRLTRGRSTESRKS	Homo sapiens
1538	8436	Platelet-Activating Factor Receptor	P25105	1097	AVTRPIKTAQANIRKR	Homo sapiens
1539	8436	Platelet-Activating Factor Receptor	P25105	1098	DSNTIVPDSAGSGNVTRC	Homo sapiens
1540	8436	Platelet-Activating Factor Receptor	P25105	1099	QQRNAEVKRRALWMVC	Homo sapiens
1541	8436	Platelet-Activating Factor Receptor	P25105	1100	KKFRKHLTEKFYSMRSSRKC	Homo sapiens
1542	8509	G Protein-Coupled Receptor Ls8509	Q14439	398	DRYYSVLVPLERKISDAKSR	Homo sapiens
1543	8509	G Protein-Coupled Receptor Ls8509	Q14439	400	DEESEAKEYIGSADFQAKE	Homo sapiens
1544	8509	G Protein-Coupled Receptor Ls8509	Q14439	401	ETRNSKKRLLPPLGNITPEE	Homo sapiens
1545	8509	G Protein-Coupled Receptor Ls8509	Q14439	402	ELUQTKVPKVGRVERKMSR	Homo sapiens
1546	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1078	KKQIRKAQNFTSILAN	Homo sapiens
1547	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1079	FRNLSLPTDLYTHQVAC	Homo sapiens
1548	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1080	CVENWPSKKDRLLFTI	Homo sapiens
1549	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1081	CLRRRNAKVDKKKENEGR	Homo sapiens
1550	9421	Neuropeptide Y Receptor Type 1	P25929	1064	DEPFQNVTLDAYKDKYVC	Homo sapiens
1551	9421	Neuropeptide Y Receptor Type 1	P25929	1065	CYFKYIYRLKRRNNMMDK	Homo sapiens
1552	9421	Neuropeptide Y Receptor Type 1	P25929	1066	CDFRSRDDDDVETIAMS	Homo sapiens
1553	9421	Neuropeptide Y Receptor Type 1	P25929	1498	ENDDCHIPLAMIFTLALA	Homo sapiens
1554	9421	Neuropeptide Y Receptor Type 1	P25929	2291	SNFSEKNAQLLAFENDDC	Homo sapiens

1555	9834	Type 1 Corticotropin releasing factor Receptor 1	NP_004373.1	1778	CESLSLASISDNGYRE	Homo sapiens
1556	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	1779	CQEILNEEKSKVHYHVA	Homo sapiens
1557	10457	Fitzled-2	NP_001457.1	1774	NHSEDGAPALLTAPP	Homo sapiens
1558	10457	Fitzled-2	NP_001457.1	1775	GGAPPRVATLEHPHC	Homo sapiens
1559	10457	Fitzled-2	NP_001457.1	1776	CEPARPDGSMFFSQEE	Homo sapiens
1560	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1082	AAREAGAAVRRPLGPE	Homo sapiens
1561	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1083	LYRVRPPREKIGRIRRA	Homo sapiens
1562	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1085	PRELAAGGSFHGCLYR	Homo sapiens
1563	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1086	CKTVRLSDVRVRPVNTYAR	Homo sapiens
1564	14198	Interleukin-8 Receptor B	P25025	802	EDFWKGEDLSNYSYS	Homo sapiens
1565	14198	Interleukin-8 Receptor B	P25025	803	PFFLDAAPECESELE	Homo sapiens
1566	14198	Interleukin-8 Receptor B	P25025	804	RRTVYSSNVSPACYE	Homo sapiens
1567	14198	Interleukin-8 Receptor B	P25025	805	SKDSLPKDSRPSFVGS	Homo sapiens
1568	14641	Calcitonin Receptor	P30988	766	PKPFLYVVGRRKKMMDAQYKC	Homo sapiens
1569	14641	Calcitonin Receptor	P30988	769	VEVVPNGELVRDVPVSC	Homo sapiens
1570	14641	Calcitonin Receptor	P30988	771	KIQWNQRWGRRPSNRS	Homo sapiens
1571	14641	Calcitonin Receptor	P30988	772	CHQEPRNEPANINQGEESAE	Homo sapiens
1572	16041	C-C Chemokine Receptor 6	P51684	355	TKSFRURSLPRSKIIC	Homo sapiens
1573	16041	C-C Chemokine Receptor 6	P51684	356	STFVFNQKYNITGGSDVCE	Homo sapiens
1574	16041	C-C Chemokine Receptor 6	P51684	357	TAANLGKMINRSCQSE	Homo sapiens
1575	16041	C-C Chemokine Receptor 6	P51684	358	RYSENISRQTSSETADNDNAS	Homo sapiens
1576	16599	Smoothed	NP_005622.1	2595	CPLAPPELHPPAPAP	Homo sapiens
1577	16599	Smoothed	NP_005622.1	2666	CAIVERERGWPDFLR	Homo sapiens
1578	16599	Smoothed	NP_005622.1	2667	CTNEVQNIKFNSSGQ	Homo sapiens
1579	16599	Smoothed	NP_005622.1	2668	CEVPLVRTDNPKSWYE	Homo sapiens
1580	16599	Smoothed	NP_005622.1	2669	CRADGTMRLGPTSNE	Homo sapiens

1581	16599	Smoothed	NP_005622.1	2670	EAEISPELQKRLGRKK	Homo sapiens
1582	16599	Smoothed	NP_005622.1	2671	ANVTIGLPTKGPIPDG	Homo sapiens
1583	17250	G Protein-Coupled Receptor GPR45	O43898	1227	SNASDSGSTQLPAPLR	Homo sapiens
1584	17250	G Protein-Coupled Receptor GPR45	O43898	1228	CVLGYTELPADRAYVW	Homo sapiens
1585	17250	G Protein-Coupled Receptor GPR45	O43898	1249	LNTVRKNAVVRVHNGSD	Homo sapiens
1586	17250	G Protein-Coupled Receptor GPR45	O43898	1272	KVPERIRRRIGPSTVYC	Homo sapiens
1587	17250	G Protein-Coupled Receptor GPR45	O43898	1273	DSLDIRQLTRAGLRRL	Homo sapiens
1588	17345	G Protein-Coupled Receptor D6	LR13	363	EDADAENSSFYVDYLDE	Homo sapiens
1589	17345	G Protein-Coupled Receptor D6	LR13	364	DKYLEIVHAGPYHRLTR	Homo sapiens
1590	17345	G Protein-Coupled Receptor D6	LR13	365	CVLVRLRPAGQGRLK	Homo sapiens
1591	17345	G Protein-Coupled Receptor D6	LR13	366	DLGERQSENYPNKEDVGNK	Homo sapiens
1592	17535	Gaba(b) Receptor 1	O95375	188	EKLTKRLKRHPETGGFQEA	Homo sapiens
1593	17535	Gaba(b) Receptor 1	O95375	189	KKEKKKEWRKTLEPWK	Homo sapiens
1594	17535	Gaba(b) Receptor 1	O95375	190	DPLHRTIETFAKEPKEDID	Homo sapiens
1595	17535	Gaba(b) Receptor 1	O95375	191	YEIEVVCRGEREVWGPVKRK	Homo sapiens
1596	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1205	SLWETVQKWREYRRQC	Homo sapiens
1597	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1206	LQKDNSSLPWRLDSEC	Homo sapiens
1598	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1208	CIVVSKLKANILMCKTD	Homo sapiens
1599	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1209	RWRLEHLHIQRDSSMKPLKC	Homo sapiens
1600	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1520	CQVDETEEPDVHLPQP	Homo sapiens
1601	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1521	REGLEAAGAAGASAAASYSS	Homo sapiens
1602	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1522	KLPSARAKIRITSSPI	Homo sapiens
1603	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1523	ESKSSIKRVLAITTVLS	Homo sapiens

1604	18471	Receptor LOC51210	NP_057456.1	1524	QGTEILYPD AHLSAED	Homo sapiens
1605	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1525	PKTPLKERISLPSRRS	Homo sapiens
1606	19072	G Protein-Coupled Receptor LOC51210	ENSP00000164265	2030	SWVQLRRQRDPDFEWNEGLC	Homo sapiens
1607	19072	G Protein-Coupled Receptor Ls19072	ENSP00000164265	2032	PAVGWHDTSERFYTHGC	Homo sapiens
1608	19072	G Protein-Coupled Receptor Ls19072	ENSP00000164265	2047	AVQVGRQADRRRAFTVPT	Homo sapiens
1609	19501	G Protein-Coupled Receptor KIAA0758	G9UIZ3	1513	EHPAGEEALRQKRAVATK	Homo sapiens
1610	19501	G Protein-Coupled Receptor KIAA0758	G9UIZ3	1514	ALRQKRAVATKSPTAE	Homo sapiens
1611	19501	G Protein-Coupled Receptor KIAA0758	G9UIZ3	1515	CEKEVLSSNVSWRYEEGQLE	Homo sapiens
1612	19501	G Protein-Coupled Receptor KIAA0758	G9UIZ3	1518	RLANNTGGWDSSGCYVEEGD	Homo sapiens
1613	19501	G Protein-Coupled Receptor KIAA0758	G9UIZ3	1519	CKQEKSSLFQISKSIG	Homo sapiens
1614	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2164	CTAFQRREGGVPGRPGSPG	Homo sapiens
1615	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2166	APGTRASRRCDRAGRWE	Homo sapiens
1616	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2167	CPAERVANNIRGDFRWPR	Homo sapiens
1617	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2171	QNPPPEPPADGQLRFRC	Homo sapiens
1618	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2175	VPLGGGAPGTRASRRC	Homo sapiens
1619	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	425	PAARVHRPSRCRYRD	Homo sapiens
1620	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	426	TLARPDATQSQRRTKTVRL	Homo sapiens
1621	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	427	RSKLVAASVPARDVRG	Homo sapiens
1622	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	428	AQSERSAVTTDATRDP	Homo sapiens

1623	22925	Latrophilin-3	O94867	1138	CSGKSTESSIGSGKTSISR	Homo sapiens
1624	22925	Latrophilin-3	O94867	1140	ENHQPHHYTRRRIPQD	Homo sapiens
1625	22925	Latrophilin-3	O94867	1141	ESVTSTQTEPPPAKC	Homo sapiens
1626	22925	Latrophilin-3	O94867	1497	SSASLNREGLLNNARD	Homo sapiens
1627	25359	G Protein-Coupled Receptor GPR34	O95853	1255	DRYKINRSIQQRKAIT	Homo sapiens
1628	25359	G Protein-Coupled Receptor GPR34	O95853	1257	CHYRDKHNAKGAEAFN	Homo sapiens
1629	25359	G Protein-Coupled Receptor GPR34	O95853	1258	RISKRRSKFPNSGKYA	Homo sapiens
1630	25359	G Protein-Coupled Receptor GPR34	O95853	1259	CQLLRRFQGEPSRSESTSE	Homo sapiens
1631	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2721	RLQEILLTFEKINKTR	Homo sapiens
1632	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2722	KGKSRAAENASLGPTN	Homo sapiens
1633	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2723	LLFGTIMDHKIRDALR	Homo sapiens
1634	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2724	RPSIGSSKSQDVWIMRI	Homo sapiens
1635	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1579	KLPNNELHGGQESHNSGN	Homo sapiens
1636	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1580	SGNRSDDGPGKNTTLHNEFD	Homo sapiens
1637	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1581	RQFISQSSSRKRKHNGSIR	Homo sapiens
1638	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1582	SHLDRLDESAGKILWYC	Homo sapiens
1639	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1584	CRSFSRRLLFKKSNIRTRSE	Homo sapiens
1640	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1585	ESIRSLQSVRRSEVRIVYD	Homo sapiens
1641	31568	G Protein-Coupled Receptor RE2	O75963	331	CRKELSNLTEEGEGEGGV	Homo sapiens
1642	31568	G Protein-Coupled Receptor RE2	O75963	332	EEDAGRTGKRKNSSTSTSSS	Homo sapiens
1643	31568	G Protein-Coupled Receptor RE2	O75963	333	CFGDRYVREPFVQRQRISR	Homo sapiens
1644	31568	G Protein-Coupled Receptor RE2	O75963	334	HSSSTGDTGFSCSQDSSGNL	Homo sapiens

1645	36534	Receptor RE2	O75473	1232	CQKLQKIDLRHNEIVEKVD	Homo sapiens
1646	36534	G Protein-Coupled Receptor GPR49	O75473	1233	NKGDNSSMDDLHKDA	Homo sapiens
1647	36534	G Protein-Coupled Receptor GPR49	O75473	1234	QDERDLEDFLLDFEED	Homo sapiens
1648	36534	G Protein-Coupled Receptor GPR49	O75473	1235	ERGFVVKYSAKFETKA	Homo sapiens
1649	36534	G Protein-Coupled Receptor GPR49	O75473	1236	RSKHPSLMSINSDDVEKQSC	Homo sapiens
1650	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2597	DAQKESTGVTLRQRR	Homo sapiens
1651	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2600	CKKINQLUSETAENVTN	Homo sapiens
1652	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2610	ADDQTLLEQIMMDQDDG	Homo sapiens
1653	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2672	KYNGQSISLRRLASQ	Homo sapiens
1654	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2673	KRYFAKFEKFFQTC	Homo sapiens
1655	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2674	DGDRQKAMKRLRVPL	Homo sapiens
1656	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2103	RVRSGRVRSYSTDFQDC	Homo sapiens
1657	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2105	CNNSVPGKEHPDITVMIRE	Homo sapiens
1658	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2106	APSKPGLPKQATVPRKVD	Homo sapiens
1659	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2135	AASKPKSTPAVIQGPSGKD	Homo sapiens
1660	42697	G Protein-Coupled Receptor GPR64	O00406	1261	KRSELNKTLLTSETYFIMC	Homo sapiens
1661	42697	G Protein-Coupled Receptor GPR64	O00406	1262	GNASTERNGVSFSVQNGDVC	Homo sapiens
1662	42697	G Protein-Coupled Receptor GPR64	O00406	1263	CRKKKKQLGAQRKTSIQD	Homo sapiens
1663	42697	G Protein-Coupled Receptor GPR64	O00406	1264	DTFGKGHMFNEKEDSC	Homo sapiens

1664	45937	KIAA1624 Protein	AAK57695	2072	PNNVPASAGNQTKTQD	Homo sapiens
1665	45937	KIAA1624 Protein	AAK57695	2073	RVKSPPEAGTQLPKIFS	Homo sapiens
1666	45937	KIAA1624 Protein	AAK57695	2074	KDGYMVMVNVSSLSNEPD	Homo sapiens
1667	45937	KIAA1624 Protein	AAK57695	2076	RSTVDSKAMGEKFSFVHNG	Homo sapiens
1668	50847	Neurotensin Receptor type 2	O95665	1265	CQPLRARSLTPRRTR	Homo sapiens
1669	50847	Neurotensin Receptor type 2	O95665	1266	GQKHELETADGEPEPASRVC	Homo sapiens
1670	50847	Neurotensin Receptor type 2	O95665	1267	KKTFIQGGQVSLVRHKD	Homo sapiens
1671	50847	Neurotensin Receptor type 2	O95665	1269	CGEHHPMKRLPPKPGSP	Homo sapiens
1672	50847	Neurotensin Receptor type 2	O95665	2294	STSTPGSSTPSRLELSEE	Homo sapiens
1673	50847	Neurotensin Receptor type 2	O95665	2301	METSSPRPPRPSSNPG	Homo sapiens
1674	50847	Neurotensin Receptor type 2	O95665	2302	CSQVPSTSTPGSSTPSR	Homo sapiens
1675	53440	G Protein-Coupled Receptor LS53440	LR76	1850	DPNGNESSATYFIIG	Homo sapiens
1676	53440	G Protein-Coupled Receptor LS53440	LR76	1851	RHATVLTLPRTKIGV	Homo sapiens
1677	53440	G Protein-Coupled Receptor LS53440	LR76	1852	ILKTVLGLTREAGAKA	Homo sapiens
1678	53440	G Protein-Coupled Receptor LS53440	LR76	1853	HRFSKRDRDSPLPVILAN	Homo sapiens
1679	53440	G Protein-Coupled Receptor LS53440	LR76	1854	KEIRQRILRLFHVATHASE	Homo sapiens
1680	54053	Gaba(b) Receptor 2	O75899	1416	GEDIEISDTESFSNDPC	Homo sapiens
1681	54053	Gaba(b) Receptor 2	O75899	1417	SSKQIKTISGKTPQGYE	Homo sapiens
1682	54053	Gaba(b) Receptor 2	O75899	1419	AATQNRFRFQFTGNQKKE	Homo sapiens
1683	54053	Gaba(b) Receptor 2	O75899	1420	CKDPEDINSPEHIQRR	Homo sapiens
1684	55728	ETL protein	NP_071442.1	2113	CVLSRKIQEEYVRLFKNVP	Homo sapiens
1685	55728	ETL protein	NP_071442.1	2114	CIAANINKTLKIRSIKEP	Homo sapiens
1686	55728	ETL protein	NP_071442.1	2115	KLSVNHRRTHLTLMHTVE	Homo sapiens
1687	55728	ETL protein	NP_071442.1	2116	EKITFLSHRKVTDYRSLC	Homo sapiens
1688	55728	ETL protein	NP_071442.1	2117	SSSILLGYKNNTISAKD	Homo sapiens
1689	56923	Muscarinic acetylcholine	P20309	1421	CSSEYELQGGSMKRSNRRIK	Homo sapiens

1690	56923	Receptor M3	P20309	1422	KPSSEQMDQDHSSSDSWNNIN	Homo sapiens
1691	56923	Muscarinic acetylcholine Receptor M3	P20309	1423	DLERKADKLQAGKSVD	Homo sapiens
1692	56923	Muscarinic acetylcholine Receptor M3	P20309	1424	KEATLAKRFALKTRSQ	Homo sapiens
1693	57180	Muscarinic acetylcholine Receptor M3	NP_062813.1	2097	PPTCRPRRMSVCYRPPGNE	Homo sapiens
1694	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2098	CLAVTRPFLAPRLRSPALAR	Homo sapiens
1695	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2099	RGARWGSGRHGARGVR	Homo sapiens
1696	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2100	TAGDLLPRAGPRFLTR	Homo sapiens
1697	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2101	EGSGEARGGGRSREGTME	Homo sapiens
1698	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2102	RITPQLKVVGQGRGNGD	Homo sapiens
1699	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1909	RSAPTALSRRLRARTHLPGC	Homo sapiens
1700	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1910	VRGSHGEPDASLMPRSC	Homo sapiens
1701	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1911	RKEDSVLMEATSGGPTSFR	Homo sapiens
1702	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1912	DQNKADIGGMLPGLTVRSV	Homo sapiens
1703	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1913	PAGWPDQSLAESDSEDPG	Homo sapiens
1704	74514	5-HT5A Receptor	NP_076917.1	2118	ETNHSLGKDDLRPSSP	Homo sapiens
1705	74514	5-HT5A Receptor	NP_076917.1	2119	SLVHELSGRRWQLGRRLC	Homo sapiens
1706	74514	5-HT5A Receptor	NP_076917.1	2120	LLFGWGETYSEGSEEC	Homo sapiens
1707	74514	5-HT5A Receptor	NP_076917.1	2121	FRVGSRTNSVSPISE	Homo sapiens
1708	74514	5-HT5A Receptor	NP_076917.1	2122	RHATVTFQPEGDTWREQK	Homo sapiens

1709	81765	Thromboxane A2 Receptor	P21731	1277	GITRPFSRPAVASQRR	Homo sapiens
1710	81765	Thromboxane A2 Receptor	P21731	1278	CHVYHGQEAAGQRPRDSEVE	Homo sapiens
1711	81765	Thromboxane A2 Receptor	P21731	1279	RNPPAMSPAGQLSRTE	Homo sapiens
1712	81765	Thromboxane A2 Receptor	P21731	1280	RRLQPRLSRPRRVSLC	Homo sapiens
1713	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	155	RYLSVVSPSLTLRVPTLRC	Homo sapiens
1714	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	156	SSILDITIFHKVLSSGCDYSE	Homo sapiens
1715	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	157	VEILRTLFRSRKRHRRTVK	Homo sapiens
1716	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	158	QTLFRITQIIRSCAEAKQLE	Homo sapiens
1717	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	159	RLQAPSPASIPSPGAFAYE	Homo sapiens
1718	130108	Receptor 1 (CCXCR1)	NP_006785.1	1589	RIEPWYSIYNSSPSQEE	Homo sapiens
1719	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1590	IMIAQLRLKNAQVRKC	Homo sapiens
1720	130108	Receptor GPR75	NP_006785.1	1591	RNQNYNKLQHVQTRGYTKS	Homo sapiens
1721	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1592	SRLQLVSAINLSTAKD	Homo sapiens
1722	130108	Receptor GPR75	NP_006785.1	1593	CKQKTRLRAMGKGNLEVN	Homo sapiens
1723	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1594	NSAYMLSPKPKKKFVDQAC	Homo sapiens
1724	133117	Receptor RAIG1	AAC98506.1	1218	CKVQDSNRKRKMLPTQF	Homo sapiens
1725	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1219	HAVSLTKLVRGRKPLS	Homo sapiens
1726	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1220	NVNVFSELSAPRRNED	Homo sapiens
1727	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1221	TKQRNPMDPYVEDAFC	Homo sapiens
1728	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1222	CKPQLVKKSYGVENRA	Homo sapiens
1729	152198	Tachykinin Receptor 2	AAB05897.1	1286	RRAVPGHQAHGANLRH	Homo sapiens
1730	152198	Tachykinin Receptor 2	AAB05897.1	1287	KEDKLELPTLSLRVNR	Homo sapiens
1731	152198	Tachykinin Receptor 2	AAB05897.1	1288	KETLFMAGDTAPSEATSGEA	Homo sapiens

1732	152198	Tachykinin Receptor 2	AA805897.1	1290	CVVWPEDSGGKILL	Homo sapiens
1733	152201	Thyrotropin Receptor	P16473	1445	RQRKSVNALNSPLHQE	Homo sapiens
1734	152201	Thyrotropin Receptor	P16473	1446	KFQDTHNNAHYVVFEEQED	Homo sapiens
1735	152201	Thyrotropin Receptor	P16473	1449	CHVKYITVRNPQYNPGDK	Homo sapiens
1736	152201	Thyrotropin Receptor	P16473	1450	CKRQAQAYRGQRVPPKNSTD	Homo sapiens
1737	152245	C-C Chemokine Receptor 2	NP_000639.1	1896	SRSRFRINTNESGEEVTT	Homo sapiens
1738	152245	C-C Chemokine Receptor 2	NP_000639.1	1898	CQKEDSVVCGPYFPRGWNIN	Homo sapiens
1739	152245	C-C Chemokine Receptor 2	NP_000639.1	1899	SGEEVTFFDYDYGAPCHKF	Homo sapiens
1740	152299	Interleukin-8 Receptor A	P25024	806	DFDDLNTGMPADEDYSPC	Homo sapiens
1741	152299	Interleukin-8 Receptor A	P25024	807	CWGLSMNLSLPLFLRQAYH	Homo sapiens
1742	152299	Interleukin-8 Receptor A	P25024	808	RHRVTSYSSSVNVSSN	Homo sapiens
1743	152299	Interleukin-8 Receptor A	P25024	1490	CMLETETLNKYVVIAYALV	Homo sapiens
1744	158822	Mas Proto-Oncogene	NP_002368.1	1527	EEPTNISTGRNASVGNHRRQ	Homo sapiens
1745	158822	Mas Proto-Oncogene	NP_002368.1	1528	RRNPFTVYTHLSIAD	Homo sapiens
1746	158822	Mas Proto-Oncogene	NP_002368.1	1529	VVMCIDREEESHRNDICRAV	Homo sapiens
1747	158822	Mas Proto-Oncogene	NP_002368.1	1530	SSTILVVKIRKNTWASHSSK	Homo sapiens
1748	158822	Mas Proto-Oncogene	NP_002368.1	1531	TRAFKDEMQPRRQKDNK	Homo sapiens
1749	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1578	ERYLGVAFPVQYKLSRRPL	Homo sapiens
1750	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1586	QYLNITEQVRSNGNEITC	Homo sapiens
1751	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1588	EGTNEIDRGVGGGEGMPSSD	Homo sapiens
1752	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1616	RGLQVLRNQGSLLGRRGKD	Homo sapiens
1753	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1292	KQCLEEAQLENETIGCS	Homo sapiens
1754	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1296	KDLALFDSGESDQCSE	Homo sapiens
1755	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1297	LQKLRRPPDIRKSDSSP	Homo sapiens
1756	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1298	NPKYRHPSGGSGNGATC	Homo sapiens
1757	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1299	KVFSNFYSKAGNISKNC	Homo sapiens
1758	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1301	CGYSDPEDESKITFYI	Homo sapiens
1759	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1305	KRKWRSRCPTPSASRD	Homo sapiens

1760	160040	Polypeptide Receptor 2 Vasoactive Intestinal	P41587	1306	CGSSFSRNGSEGAALQFHR	Homo sapiens
1761	160055	Polypeptide Receptor 2 Motilin Receptor (GPR38)	AAC26081.1	132	REPPWPALPPCDERRCS	Homo sapiens
1762	160055	Motilin Receptor (GPR38)	AAC26081.1	134	SPSPGPETAEEAALFSREC	Homo sapiens
1763	160055	Motilin Receptor (GPR38)	AAC26081.1	135	SSRRPLRGPAASGRERGRHQ	Homo sapiens
1764	160055	Motilin Receptor (GPR38)	AAC26081.1	136	RKSRPRGFHRSRD1AG	Homo sapiens
1765	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1595	NPLVTGYLGRGPGLKTV	Homo sapiens
1766	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1596	GRYLGAFFPLGVQAFRRPC	Homo sapiens
1767	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1597	CLEAWDPASAGPARFS	Homo sapiens
1768	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1598	CLRALARSGLTHRRKLR	Homo sapiens
1769	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1599	NASNVASFYLPNLGGSWRK	Homo sapiens
1770	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1617	TVSLPIKAVEALASGA	Homo sapiens
1771	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1618	DHSNTSLGINTPVNGSPVC	Homo sapiens
1772	160189	G Protein-Coupled Receptor GPR54	BAB55446	1926	CSEAFPSRALERAFALY	Homo sapiens
1773	160189	G Protein-Coupled Receptor GPR54	BAB55446	1927	ERAGAVRAKVSRVAAVV	Homo sapiens
1774	160189	G Protein-Coupled Receptor GPR54	BAB55446	1928	RRPGSPDPAAPHAELHRLGS	Homo sapiens
1775	160189	G Protein-Coupled Receptor GPR54	BAB55446	1929	GAPANASGCCPGCGANASD	Homo sapiens
1776	160202	Adrenomedullin Receptor (ADMR)	O15218	390	DLFNHTLSECHVELSQST	Homo sapiens
1777	160202	Adrenomedullin Receptor (ADMR)	O15218	391	NVLTACRLRQPGQPKSRRHC	Homo sapiens
1778	160202	Adrenomedullin Receptor (ADMR)	O15218	392	KDQTKAGTICASSSSCSTQ	Homo sapiens
1779	160202	Adrenomedullin Receptor (ADMR)	O15218	484	KGDSQPAAAAAPHPEPSLS	Homo sapiens
1780	160204	G Protein-Coupled Receptor RTA	LR85	1977	CRARRRQRSTKLNHVILA	Homo sapiens

1781	160204	G Protein-Coupled Receptor RTA	LR85	1983	CPGLSEAPELYRRGFLTEQ	Homo sapiens
1782	160204	G Protein-Coupled Receptor RTA	LR85	1985	RDGAELGEAGGSTPNVT	Homo sapiens
1783	160204	G Protein-Coupled Receptor RTA	LR85	2173	LAGRDKSQRLWEPLRV	Homo sapiens
1784	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1678	RTTRKWNCGTHCYLAFNSD	Homo sapiens
1785	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1679	RAKLIREGWWHANRPKR	Homo sapiens
1786	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1680	RRVMLKEIYHPRMLIJ	Homo sapiens
1787	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1682	SALARAFGEFEFLSSC	Homo sapiens
1788	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1683	RSCSRKMNSSGCLSEE	Homo sapiens
1789	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	151	PGPDRDATCNSRQAALAVSK	Homo sapiens
1790	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	152	SSHAASVSLRLQHRGRRRPGR	Homo sapiens
1791	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	153	DDSELGGAGSSRRRRISSTA	Homo sapiens
1792	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	154	DGPPEPGAEGHLELEPGRR	Homo sapiens
1793	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2220	CPILEQMSRLQSHSNTSIRY	Homo sapiens
1794	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2221	RYDHAADVLLHGLASLLGLV	Homo sapiens
1795	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2222	CRMRRQTVVTWVLLHLSLSDL	Homo sapiens
1796	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2223	SASLPFTYFLAVGHSWE	Homo sapiens
1797	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2224	CLVLWALAVLNTVPYFVFRD	Homo sapiens
1798	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2225	CYNNVLLNPGPDRDAT	Homo sapiens
1799	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2226	CNSRQAALAVSKFLAFLVP	Homo sapiens
1800	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2228	RGLPFTVSLAFFNSVANPVL	Homo sapiens

1801	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2229	CSRPEEPRGPARLLGWLLGS	Homo sapiens
1802	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2230	CAASPQTGPIALSS	Homo sapiens
1803	160212	Receptor GPR44 (CRTH2) G Protein-Coupled	Q9Y2T5	444	KEINDRRARFPSHEVDSSRE	Homo sapiens
1804	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	445	CVKDQEAQEPKPKRKANS	Homo sapiens
1805	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	446	RWTEWRILNMSSGIVNASER	Homo sapiens
1806	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	622	HSCPLGFGHYSVVDVCIFE	Homo sapiens
1807	160217	Receptor GPR52 G Protein-Coupled	AAD22410.1	161	GKVEKVMCFHNMSDDTWSAK	Homo sapiens
1808	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	162	RSIHILLGRRDHTQDWVQGQK	Homo sapiens
1809	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	163	CRAKQSFLLQLSM	Homo sapiens
1810	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	164	KEFRMINIRAHRPSPVQLVLQ	Homo sapiens
1811	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	2	AQRPPDVGQAEATRKAAAR	Homo sapiens
1812	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	3	KEFQEASALAVAPRAKAHK	Homo sapiens
1813	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	123	GGFCFRSTRHFNFSMR	Homo sapiens
1814	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	125	ETIRRALYITSLSDANC	Homo sapiens
1815	160221	Receptor GPR35 G Protein-Coupled	LR6	335	FPPVLDGGGDEDEAPCALEQ	Homo sapiens
1816	160221	Receptor GPR27 G Protein-Coupled	LR6	338	RGARRLLVLEEFKTEKRLC	Homo sapiens
1817	160221	Receptor GPR27 G Protein-Coupled	LR6	496	NASEPGSGGGGEEAALGLK	Homo sapiens
1818	160221	Receptor GPR27 G Protein-Coupled	O54897	515	GLRALACLPVAVMLAARRA	Mus musculus
1819	160221	Receptor GPR27 G Protein-Coupled	LR6	1291	RPAGPGRGARLLVLE	Homo sapiens

1820	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1606	CQRPPKPGEDGGQSPV	Homo sapiens
1821	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1607	CNIMIGDVTEQYFALRRK	Homo sapiens
1822	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1610	EGRADFGSAEALAVP	Homo sapiens
1823	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1611	GNFVGRRRYGAESQNPTVK	Homo sapiens
1824	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1600	RIFRSIKQSMGLSAAQKAK	Homo sapiens
1825	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1601	CDRFVAVVVALESRRR	Homo sapiens
1826	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1604	ATDHSRQEVSRHKGWKE	Homo sapiens
1827	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1605	KTDVTRLTHSRDTEELQS	Homo sapiens
1828	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	403	ETQEQGSRSKRGTEDEEAK	Homo sapiens
1829	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	404	SPNPKDKGGTPDSGQELR	Homo sapiens
1830	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	405	CQLVTWRVRGPPGRKSE	Homo sapiens
1831	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	406	AANGSDNKLKTEVSS	Homo sapiens
1832	160225	Sphingolipid Receptor Edg6	CAA04118.1	70	PRDSFRGSRSLFRMIRE	Homo sapiens
1833	160225	Sphingolipid Receptor Edg6	CAA04118.1	71	ERFATMVRPVAESGATKTSR	Homo sapiens
1834	160225	Sphingolipid Receptor Edg6	CAA04118.1	72	RLVQASGGQKAPRPAAR	Homo sapiens
1835	160225	Sphingolipid Receptor Edg6	CAA04118.1	73	RAVEAHSGASTDSSLRPDR	Homo sapiens
1836	160225	Sphingolipid Receptor Edg6	CAA04118.1	1914	IFRLVQASGGQKAPRPAAR	Homo sapiens
1837	160225	Sphingolipid Receptor Edg6	CAA04118.1	1915	DSSLRPDSFRGSRSLFRM	Homo sapiens
1838	160225	Sphingolipid Receptor Edg6	CAA04118.1	1916	RSLSFRMREPLSSISVR	Homo sapiens
1839	160225	Sphingolipid Receptor Edg6	CAA04118.1	1917	GPEDGGGLGALGLSVAASC	Homo sapiens
1840	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1625	ANIGSLCVSFLQPKKE	Homo sapiens
1841	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1626	ETIFNAVMLWEDEVVE	Homo sapiens
1842	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1627	CNRKVVQAVRHINKATENKE	Homo sapiens

1843	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1628	CILEHAVNFEDHSNGKR	Homo sapiens
1844	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1629	CNTSQQRQRKRLSVSTKD	Homo sapiens
1845	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	2303	CDAEKSNTFLCYDKYPLEK	Homo sapiens
1846	160300	Encephalopsin	NP_055137.1	2131	CTVDWWSKDANDSSFV	Homo sapiens
1847	160300	Encephalopsin	NP_055137.1	2132	CVEDLQTIQIVIKLKYEK	Homo sapiens
1848	160300	Encephalopsin	NP_055137.1	2133	CQRPAAKDLPAAGSEMQRIP	Homo sapiens
1849	160300	Encephalopsin	NP_055137.1	2134	TSDESLVDSDSKTIG	Homo sapiens
1850	160312	Spingolipid Receptor Edg5	O95136	1018	ERHVAIAKVKLYGSDKSC	Homo sapiens
1851	160312	Spingolipid Receptor Edg5	O95136	1019	RSRDLRREVLRPLQC	Homo sapiens
1852	160312	Spingolipid Receptor Edg5	O95136	1020	QEHVNYTKETLETQET	Homo sapiens
1853	160312	Spingolipid Receptor Edg5	O95136	1021	GRRRVGTPG-HLLPLR	Homo sapiens
1854	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1922	MMRKKAQFSURENPVEETKG	Homo sapiens
1855	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1923	MMIEYSNFEKEYDDVTIKM	Homo sapiens
1856	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1924	CEQTEEEKKLRLHLFRSE	Homo sapiens
1857	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1925	KKRVGDGSLVRIHGMKMSK	Homo sapiens
1858	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	463	DRARRERFIMNEKWDINSSE	Homo sapiens
1859	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	464	RKNQEQWHVVSRRKQKLIK	Homo sapiens
1860	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	465	RKSAEKPGQELVMEELKE	Homo sapiens
1861	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	500	RQSAQDRRLGLSRQTAK	Homo sapiens
1862	160324	G Protein-Coupled Receptor	NP_076403.1	1619	DRFLKIIRPLRNIFLKKP	Homo sapiens
1863	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1620	MILSNKEATPSSVKKC	Homo sapiens
1864	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1622	VYDSYRKSQKDKNN	Homo sapiens
1865	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1623	ARVPYTHSQTNNTKDC	Homo sapiens

1866	160324	G Protein-Coupled Receptor	NP_076403.1	1624	CMQGRKTTASSQENHSSQTD	Homo sapiens
1867	160329	GPR86/GPR94/P2Y13 Proteinase-Activated Receptor 4	O76067	1308	CANDSDTLELPDSSRA	Homo sapiens
1868	160329	Proteinase-Activated Receptor 4	O76067	1309	PLRARALRGRRALGLC	Homo sapiens
1869	160329	Proteinase-Activated Receptor 4	O76067	1310	LQRTIRLARSDRVLC	Homo sapiens
1870	160329	Proteinase-Activated Receptor 4	O76067	1311	RDKVRAGLFQIRSPGDT	Homo sapiens
1871	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	O9Y653	1213	CELRDLQLLSQFLKHPQK	Homo sapiens
1872	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	O9Y653	1214	TSVRFMGDMVSEEDR	Homo sapiens
1873	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	O9Y653	1215	RQEEEQSEIMEYSVLLP	Homo sapiens
1874	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	O9Y653	1216	RTLFRITKGRSGAEKR	Homo sapiens
1875	160387	Glucagon-Like Peptide 2	O95838	1312	GSLLKETTRKWAQYKQAC	Homo sapiens
1876	160387	Glucagon-Like Peptide 2	O95838	1313	QTENATDIWQDDSEC	Homo sapiens
1877	160387	Glucagon-Like Peptide 2	O95838	1315	CPKKLSEGDGAELRK	Homo sapiens
1878	160387	Glucagon-Like Peptide 2	O95838	1316	QQDHARWPRGSSLSEC	Homo sapiens
1879	160388	Latrophilin-1	O94910	1121	EPTSTHESEHQSGAWC	Homo sapiens
1880	160388	Latrophilin-1	O94910	1126	CEPREVRRVQWPATGQ	Homo sapiens
1881	160388	Latrophilin-1	O94910	1129	RSGDFPPGDGGPEPPR	Homo sapiens
1882	160388	Latrophilin-1	O94910	1131	CTAEDGATSRPLSPGRDS	Homo sapiens
1883	160388	Latrophilin-1	O94910	1706	RESAGKNYNKMKRERTC	Homo sapiens
1884	160388	Latrophilin-1	O94910	1707	RDSPSPDSSPEGPSEALP	Homo sapiens
1885	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1938	QVGPCRSLSGRGRGSSGAC	Homo sapiens
1886	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1939	CRDAGTELTGHLVPHDGLR	Homo sapiens

1887	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1940	CKLAQAPGLRAGERSPEESL	Homo sapiens
1888	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1942	RVSDTPEGVNSLDPHGES	Homo sapiens
1889	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1943	RSQKSGPSYPFLREES	Homo sapiens
1890	160397	Latrophilin-2	O95490	1132	CEALDSKGIKWPQTQR	Homo sapiens
1891	160397	Latrophilin-2	O95490	1133	DILDAQLQLKPKSEKD	Homo sapiens
1892	160397	Latrophilin-2	O95490	1136	RTHSLLYGPQKKVKSE	Homo sapiens
1893	160397	Latrophilin-2	O95490	1137	RDSPYPESSPDMIEDL	Homo sapiens
1894	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1630	CQEQKMLRTLTLDSYNNIRD	Homo sapiens
1895	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1631	CDSYANLNTEDNSLQD	Homo sapiens
1896	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1632	KGTADAANVTILENEE	Homo sapiens
1897	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1633	ERSLSAKDIMKNKSNHLK	Homo sapiens
1898	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1634	CNLEKEDLSENSQSSMIK	Homo sapiens
1899	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1635	KRRVTKKSGSVSVSIS	Homo sapiens
1900	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1636	CGTQSAHSDYADEEDS	Homo sapiens
1901	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1637	DEEDSFVSDSDQVQAC	Homo sapiens
1902	160435	LS160435 Receptor	LR80	1918	ATILKLLRTEEAHGREQRR	Homo sapiens
1903	160435	LS160435 Receptor	LR80	1919	CRRVPRDITLIRRESLFSAR	Homo sapiens
1904	160435	LS160435 Receptor	LR80	1920	PLSSKRWRRRRYAVAAAC	Homo sapiens
1905	160435	LS160435 Receptor	LR80	1921	CRRMGPRSPSVFMINL	Homo sapiens
1906	160889	Platelet Activating Receptor Homolog (H963)	O14626	1223	MMIPKDIKEKSNVGC	Homo sapiens
1907	160889	Platelet Activating Receptor Homolog (H963)	O14626	1224	CLVIRQLYRNKDNENYP	Homo sapiens
1908	160889	Platelet Activating Receptor	O14626	1225	CSTRISLFKAKEATLL	Homo sapiens

1909	160889	Homolog (H963) Platelet Activating Receptor	O14626	1226	ETFA SPKETKAQKEKLRRC	Homo sapiens
1910	161024	Homolog (H963) Protein A	NP_062832.1	1690	ESRAVGLPLGLSAGRRC	Homo sapiens
1911	161024	Protein A	NP_062832.1	1691	EDARGKRSSLDGSESAK	Homo sapiens
1912	161024	Protein A	NP_062832.1	1692	RTVWEGQCVAIMSEEDGD	Homo sapiens
1913	161024	Protein A	NP_062832.1	1693	CKVRFDANGATGPGSRD	Homo sapiens
1914	161024	Protein A	NP_062832.1	1694	RRLSHDEINIFSTPRE	Homo sapiens
1915	161024	Protein A	NP_062832.1	1695	GGPEYVLGQRHRLDEED	Homo sapiens
1916	161024	Protein A	NP_062832.1	1696	REEITTFIDETPLPSP	Homo sapiens
1917	161024	Protein A	NP_062832.1	1697	RRPRPLGLSPRRLSLGSPE	Homo sapiens
1918	161214	Galanin Receptor GalR3	AAC35944.1	202	RYGALELCVPAWEDARR	Homo sapiens
1919	161214	Galanin Receptor GalR3	AAC35944.1	203	GAAAAEARRRATGRAGR	Homo sapiens
1920	161214	Galanin Receptor GalR3	AAC35944.1	204	ASRHFRARFRRLWPC	Homo sapiens
1921	161214	Galanin Receptor GalR3	AAC35944.1	205	RAIRRALRRVRPASSGPP	Homo sapiens
1922	161221	Urotensin-II Receptor (GPR14)	LR15	371	ERYAAVLRPLDTVQRPKG	Homo sapiens
1923	161221	Urotensin-II Receptor (GPR14)	LR15	372	RAYRRSGRASFKRARRPGAR	Homo sapiens
1924	161221	Urotensin-II Receptor (GPR14)	LR15	373	RNYRDHLRGRVRGPGSG	Homo sapiens
1925	161221	Urotensin-II Receptor (GPR14)	LR15	374	RA RFGRCSGRSLSCSPQPTD	Homo sapiens
1926	161249	G Protein-Coupled Receptor GPR66	LR20	394	ARGHFDPEDNLITDEALRLK	Homo sapiens
1927	161249	G Protein-Coupled Receptor GPR66	LR20	395	IGLRLRRERLLMQEAKGRG	Homo sapiens
1928	161249	G Protein-Coupled Receptor GPR66	LR20	396	RGSA AARSRYTCRLQGH	Homo sapiens
1929	161249	G Protein-Coupled Receptor GPR66	LR20	397	ALCLGACCHRLRPRHSS	Homo sapiens
1930	161251	Purinergic Receptor P2Y10	O00398	859	CFLLKPFPRARDWKRRVD	Homo sapiens
1931	161251	Purinergic Receptor P2Y10	O00398	860	PFPILRSTDLLNNKSC	Homo sapiens
1932	161251	Purinergic Receptor P2Y10	O00398	862	QLSRHGSSVTRSRUMSKE	Homo sapiens
1933	161251	Purinergic Receptor P2Y10	O00398	863	LRGPPMAFGISERQK	Homo sapiens
1934	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1672	YYDDLDDVDYEEAPC	Equine herpesvirus 2

1935	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1674	CDPYVPENSTNVWRRRAHVAK	Equine herpesvirus 2
1936	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1675	CYYVIRLLRRPSKK	Equine herpesvirus 2
1937	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1676	CKYIPFLSGDGEKEGPT	Equine herpesvirus 2
1938	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1820	RNLISSPAPTASPPAPS	Homo sapiens
1939	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1821	PSWTPSPRPGPAHPFLQPP	Homo sapiens
1940	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1822	RSSHQKRGTTDRDVGSNVC	Homo sapiens
1941	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1823	KSTSTTASFVSSSHMSVEE	Homo sapiens
1942	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1317	TSPFLMAKPQKDEKNNTKC	Homo sapiens
1943	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1318	KKSMKKNLSSHKKAIG	Homo sapiens
1944	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1319	QRTIHLHLHNTRKPC	Homo sapiens
1945	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1320	RKHSLSSTVTVPRKKASLPE	Homo sapiens
1946	177191	Histamine H3 Receptor	Q9Y5N1	474	RAVSYRAQQGDTIRRAVRK	Homo sapiens
1947	177191	Histamine H3 Receptor	Q9Y5N1	475	QRRTRLRLDGAREAAGPE	Homo sapiens
1948	177191	Histamine H3 Receptor	Q9Y5N1	476	QSFTQIRFLSLDRKVA	Homo sapiens
1949	177191	Histamine H3 Receptor	Q9Y5N1	477	RYGVGEAAVGAEGEATLG	Homo sapiens
1950	177191	Histamine H3 Receptor	Q9Y5N1	1477	SSRGTERPSLRGSKPSAS	Homo sapiens
1951	177191	Histamine H3 Receptor	Q9Y5N1	1479	KPSASSASLEKRMKIMVS	Homo sapiens
1952	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2052	RTLFSFYFRDTPRANR	Homo sapiens
1953	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2053	RPMSRGLLAVRGAFV	Homo sapiens
1954	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2059	CAVLSHRRAGQPWALLV	Homo sapiens
1955	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2733	RVLVSDSLFICALSL	Homo sapiens

1956	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1014	KRKTNVLSPTSGSIS	Homo sapiens
1957	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1015	CFSQENPERRPSRIPST	Homo sapiens
1958	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1016	SYKDEDMYGTIMKKMIC	Homo sapiens
1959	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1017	VERHMSIMRMVRHSN	Homo sapiens
1960	189873	G Protein-Coupled Receptor GPR78	LR37	443	CQRMDTVIMKALALLAD	Homo sapiens
1961	189873	G Protein-Coupled Receptor GPR78	LR37	528	CSLRLPPERPRFAAFTAT	Homo sapiens
1962	189873	G Protein-Coupled Receptor GPR78	LR37	533	RGPLPPGICAHSAQGALRR	Homo sapiens
1963	189873	G Protein-Coupled Receptor GPR78	LR37	534	CRQAQARDLGAPWAVGLRSL	Homo sapiens
1964	189874	Neuromedin U Receptor 2	LR28	420	QQKLEDPFQKHLNSTEE	Homo sapiens
1965	189874	Neuromedin U Receptor 2	LR28	422	KDKSLEADEGNANIQRPC	Homo sapiens
1966	189874	Neuromedin U Receptor 2	LR28	423	SQHDPQLPPAQRIFLTEC	Homo sapiens
1967	189874	Neuromedin U Receptor 2	LR28	487	ILHPRAKLQSTRRAALR	Homo sapiens
1968	189884	G Protein-Coupled Receptor Ls189884	LR27	415	CKKRGTKTNLRNQIRSK	Homo sapiens
1969	189884	G Protein-Coupled Receptor Ls189884	LR27	418	EKPSSPSGKGKTEKAE	Homo sapiens
1970	189884	G Protein-Coupled Receptor Ls189884	LR27	419	PSVQDNDPIPWEHEDQETGE	Homo sapiens
1971	189884	G Protein-Coupled Receptor Ls189884	LR27	486	KKPPTVSESQETPAGNSEG	Homo sapiens
1972	189884	G Protein-Coupled Receptor Ls189884	LR27	1832	LVMSEEFREGLGKGVWK	Homo sapiens
1973	189884	G Protein-Coupled Receptor Ls189884	LR27	1833	GLPDKVPSPEPASIEPK	Homo sapiens
1974	189884	G Protein-Coupled Receptor Ls189884	LR27	1834	PDVEQFWHERDTPVPSVQ	Homo sapiens
1975	189884	G Protein-Coupled Receptor Ls189884	LR27	1835	RHHEGVEMCLVDVPAVAEE	Homo sapiens
1976	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1685	RVPQIPGPGSTASGVPE	Homo sapiens
1977	189895	G Protein-Coupled	AAK12637.1	1686	ETPRQRSESLSSRSTMVTS	Homo sapiens

1978	189895	Receptor GPR61 G Protein-Coupled Receptor GPR61	AAK12637.1	1687	SSGAPQITPHRTFGGK	Homo sapiens
1979	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1688	KPAPEEELRLPSREGSIEE	Homo sapiens
1980	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1689	CPSESWVSRPLSPKQE	Homo sapiens
1981	189900	Spingolipid Receptor Edg8	LR1	312	TGKLRGARYQPGAGLRAD	Homo sapiens
1982	189900	Spingolipid Receptor Edg8	LR1	316	ALERSLTMARRGPAVSS	Homo sapiens
1983	189900	Spingolipid Receptor Edg8	LR1	317	DGSFSGSERSSPQRDGLD	Homo sapiens
1984	189900	Spingolipid Receptor Edg8	LR1	318	CGRDPSSGSSQSSASAAEASG	Homo sapiens
1985	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2266	ASRKAAEIGKLVQGEVS	Homo sapiens
1986	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2270	SCLSYRVGTPKSASLR	Homo sapiens
1987	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2271	RVDYYLLHETWRFGAAC	Homo sapiens
1988	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2272	HQSRALLGLTRGRQGPVSD	Homo sapiens
1989	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2273	CIHTRPWTSTNTVFLVSL	Homo sapiens
1990	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2274	RGRQGPVDESSYQPSR	Homo sapiens
1991	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2108	IDRYLIKYPFREHLLQKKE	Homo sapiens
1992	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2109	TDNGTTCNDFASSGDPN	Homo sapiens
1993	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2110	FLKQRNRQVATAPLE	Homo sapiens
1994	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2111	RNVRIASRLGSWKQYQC	Homo sapiens
1995	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2112	GDHFRDMLMNQLRHNFKS	Homo sapiens

1996	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1721	CVAFLPVGNPDLQIPSR	Homo sapiens
1997	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1722	NTLRHNALRIHSYPEGIC	Homo sapiens
1998	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1723	QASKLGLMSLQRPFQMSID	Homo sapiens
1999	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1724	DMMPKSFKFLPQLPGHTKRR	Homo sapiens
2000	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1715	QNLKDPVQIKIKHRTIQE	Homo sapiens
2001	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1716	KNKSFGGWNTSGCVAHRD	Homo sapiens
2002	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1717	RNNNEVVGKESYGKEKGDE	Homo sapiens
2003	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1718	CGRNGKRSNRTLREEVLR	Homo sapiens
2004	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1719	TSKSKSSSTTYFKRNSHTD	Homo sapiens
2005	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1720	DKSLSLAHADGDQTS	Homo sapiens
2006	190026	G Protein-Coupled Receptor JEG18	LR24	407	LFPIILRTSDDTPGNRTKC	Homo sapiens
2007	190026	G Protein-Coupled Receptor JEG18	LR24	408	QDKYPMAQDLGEKQKALK	Homo sapiens
2008	190026	G Protein-Coupled Receptor JEG18	LR24	409	SFPLDFLVKSNEIKSC	Homo sapiens
2009	190026	G Protein-Coupled Receptor JEG18	LR24	410	RRRLSRQDLHDSIQLHAK	Homo sapiens
2010	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1725	KGEAKLDSRAKDVLTITQE	Homo sapiens
2011	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1727	DHKEQPIVITENAERQLVVKD	Homo sapiens
2012	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1728	EDFEEQTLTILFDGERERK	Homo sapiens
2013	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1729	EGKEGDYIRIPERILLDVQD	Homo sapiens

2014	190168	Receptor VLGR1	AAF27278.1	324	SEAYADGIEGYDILVACSSS	Homo sapiens
		G Protein-Coupled Receptor GPR58				
2015	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	326	NNLRENQNNQVKKDKKA	Homo sapiens
2016	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	379	DPFLNFSTPVLFDALT	Homo sapiens
2017	190168	Receptor GPR58				
		G Protein-Coupled Receptor GPR58	AAF27278.1	380	GKIFSSCFHNTILCMQKE	Homo sapiens
2018	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	327	CPKFVNKILSSHQPLFS	Homo sapiens
2019	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	328	KQIHARVISHVPENTKGAVKK	Homo sapiens
2020	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	329	ENTKGAVKKHLSKKDRKA	Homo sapiens
2021	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	330	CKFHTSFDMMRLTSI	Homo sapiens
2022	190188	G Protein-Coupled Receptor LGR6	LR36	439	ENHDQDLDELQLEMEDSKP	Homo sapiens
2023	190188	G Protein-Coupled Receptor LGR6	LR36	440	NPHFRDDLRLRPAGDS	Homo sapiens
2024	190188	G Protein-Coupled Receptor LGR6	LR36	442	EDLHLDDESSKRPLGLLAR	Homo sapiens
2025	190188	G Protein-Coupled Receptor LGR6	LR36	621	DSGPLAYAAAGELEKSSC	Homo sapiens
2026	190414	Receptor LGR6				
		G Protein-coupled Receptor GPR101	CAC33098.1	1836	CAARRQHALLVNVKRHSLE	Homo sapiens
2027	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1837	DGSLKAKEGSTGTSSESV	Homo sapiens
2028	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1838	CSIDLGEDGMEFGEDDIN	Homo sapiens
2029	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1839	SEDDVEAVNIPESLPPS	Homo sapiens
2030	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1840	MHKTIKKEIQDMLKFFC	Homo sapiens
2031	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1841	KEDSHPDLPGETGGTEG	Homo sapiens
2032	190418	Inflammation-Related G Protein-Coupled Receptor	LR8	343	RQVKRAAGALDQYKLRQAS	Homo sapiens

2033	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	344	RTDEAMPGRFGELDSRLASG	Homo sapiens
2034	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	345	DSSEVGDAQINSKRAKQMAEK	Homo sapiens
2035	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	346	KAQPIKGARRAPDSSSEFGK	Homo sapiens
2036	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2716	RRKSNFRLRGYSTGKT	Homo sapiens
2037	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2717	RRQKSSYNYLLALAAAD	Homo sapiens
2038	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2719	CFLTSIPYYWWPNIWT	Homo sapiens
2039	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2725	CSIFFILNSIIVYKLR	Homo sapiens
2040	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2754	GRUVSLLSFISIPH	Homo sapiens
2041	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2755	FFFLWHVDRE	Homo sapiens
2042	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2756	MDPTISTLDTELTP	Homo sapiens
2043	190427	Cysteinyl Leukotriene C _{YSLT} 2 Receptor	LR49	471	ASSIMLLDSGSEQNGSVTSC	Homo sapiens
2044	190427	Cysteinyl Leukotriene C _{YSLT} 2 Receptor	LR49	472	RVLLKVEVPESGLRVSHRK	Homo sapiens
2045	190427	Cysteinyl Leukotriene C _{YSLT} 2 Receptor	LR49	473	KDRUKSALRKGHPOKAKTKC	Homo sapiens
2046	190427	Cysteinyl Leukotriene C _{YSLT} 2 Receptor	LR49	512	MEPNGTFSNNNSRNC	Homo sapiens
2047	190427	Cysteinyl Leukotriene C _{YSLT} 2 Receptor	NP_065110.1	2253	CTIENFKREFFPIVLIIF	Homo sapiens
2048	190427	Cysteinyl Leukotriene C _{YSLT} 2 Receptor	NP_065110.1	2254	GVLGNGLSIYVFLQPYK	Homo sapiens
2049	190427	Cysteinyl Leukotriene C _{YSLT} 2 Receptor	NP_065110.1	2255	ADYYLRGSNWIFGDLAC	Homo sapiens
2050	190427	Cysteinyl Leukotriene C _{YSLT} 2 Receptor	NP_065110.1	2256	FRLHVTIRSAWILC	Homo sapiens

2051	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2257	CGIILWILMASSIMILLDSGS	Homo sapiens
2052	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2258	CLELNLYKIAKLQTMNYIAL	Homo sapiens
2053	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2260	VSHRKALTTIITLIIFLC	Homo sapiens
2054	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2261	CFLPYHTLRTVHLTWKVGIL	Homo sapiens
2055	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2262	CKDRLHKALVITLALA	Homo sapiens
2056	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2263	YFAGENFKDRLKSALRKG	Homo sapiens
2057	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2264	HPQKAKTKCVFPVSVWLKKE	Homo sapiens
2058	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	LR31	429	DSVSVEYGDYSDLSDRPVDC	Homo sapiens
2059	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	LR31	430	RESQGQDESVDKSKSTSHD	Homo sapiens
2060	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	LR31	431	PSAIVRRLHQEHFAPRLQC	Homo sapiens
2061	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	LR31	432	CHWALRESQGQDESVDSKKS	Homo sapiens
2062	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	NP_060955.1	2818	MGNDSVSVEYGDYSDLSDRPVDC	Homo sapiens
2063	190438	Receptor G Protein-Coupled Receptor Ls190438	ENSP00000080322	2585	TERLKIRWHTSDNQVRPQAC	Homo sapiens
2064	190484	Receptor G Protein-Coupled Receptor Ls190484	LR33	434	EADLGATGHRPRTLEDDED	Homo sapiens
2065	190484	Receptor G Protein-Coupled Receptor Ls190484	LR33	435	RTCHRQQQPAACRGFARVAR	Homo sapiens
2066	190484	Receptor G Protein-Coupled Receptor Ls190484	LR33	436	EERPGSFTPEPTQTQLDSEG	Homo sapiens
2067	190484	Receptor G Protein-Coupled Receptor Ls190484	LR33	437	RSDPTAQPLNPITAPQSD	Homo sapiens
2068	190595	Receptor G Protein-Coupled Receptor SH120	NP_057418.1	1730	RNVTDITDILALERRILLQ	Homo sapiens
2069	190595	Receptor G Protein-Coupled Receptor SH120	NP_057418.1	1731	KKKRMAMARRTMFQKGE	Homo sapiens

2070	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1732	KSVTTSASGSENLTUQQE	Homo sapiens
2071	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1733	EVDALFELSRQLFLETAD	Homo sapiens
2072	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1734	DRVGKIDPVTRGIEIT	Homo sapiens
2073	190599	G Protein-Coupled Receptor GPRC5B	O75205	411	VRLPFIKEKEKKSPVGLH	Homo sapiens
2074	190599	G Protein-Coupled Receptor GPRC5B	O75205	412	DEHNAALRTAGFPNGSLGKR	Homo sapiens
2075	190599	G Protein-Coupled Receptor GPRC5B	O75205	413	GKRPSGSLGKRPSAPFRSNV	Homo sapiens
2076	190599	G Protein-Coupled Receptor GPRC5B	O75205	414	SQPRMRETAFEEDVQLPR	Homo sapiens
2077	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	542	GDPALVQSLKAGNAYSRLHC	Homo sapiens
2078	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	543	PFSSHSSYTVRSKKIFLSKL	Homo sapiens
2079	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	619	GKILLNLTGMRRKNITCQN	Homo sapiens
2080	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	620	EEVTILVQAIRTSYME	Homo sapiens
2081	190623	Melanopsin	AAF24978.1	2137	CKNGESLWQRQLQSE	Homo sapiens
2082	190623	Melanopsin	AAF24978.1	2138	RHSRPYPSTHIRST	Homo sapiens
2083	190623	Melanopsin	AAF24978.1	2139	TSHTSNLSWISIRRRQE	Homo sapiens
2084	190623	Melanopsin	AAF24978.1	2140	DLEAKAPPRPQGHEAET	Homo sapiens
2085	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1735	KLQRRPVAVDVLLNLTASD	Homo sapiens
2086	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1736	KTRPRLGQAGLVSAC	Homo sapiens
2087	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1737	EFSGDISHSQGTNGTC	Homo sapiens
2088	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1738	SRLVWILGRGGSHRRQRR	Homo sapiens
2089	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1739	GQWQQESSMELKEQKGG	Homo sapiens
2090	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1740	EEQRADRPRAERKTSEHSQGC	Homo sapiens
2091	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	2569	MDTGPDQSYFSGNHWVFSV	Homo sapiens

2092	190701	Receptor GPR41 & GPR42	AAF61299.1	1441	VAIYAYKKQRTIKTDV	Homo sapiens
2093	190701	C-C Chemokine Receptor 11	AAF61299.1	1442	VAVIKVPSQSGVGKPCWII	Homo sapiens
2094	190701	C-C Chemokine Receptor 11	AAF61299.1	1443	CNMSKRMIDIAIQVTESI	Homo sapiens
2095	190701	C-C Chemokine Receptor 11	AAF61299.1	1444	RQSVVEFPDSEGPTEP	Homo sapiens
2096	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1741	GHPPGSGGAESADTEARVR	Homo sapiens
2097	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1742	HSVASALKSHRTRGHGRGDC	Homo sapiens
2098	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1743	KGGAAVAGGRPTGASARR	Homo sapiens
2099	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1744	CLVRRERKALKSLWR	Homo sapiens
2100	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1745	RPFTATIKPEHEDQGLQ	Homo sapiens
2101	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	339	AFPVLDVGTYSFIREEDQC	Homo sapiens
2102	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	340	HDRRKMKPVQFVAASQIN	Homo sapiens
2103	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	341	RRRLVLDEFKMEKRISR	Homo sapiens
2104	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	342	LRRCFSTLLYCRKSRLPRE	Homo sapiens
2105	190725	G Protein-Coupled Receptor GPR26	LR26	554	PLTLAGWARRQAPAGDRLC	Homo sapiens
2106	190725	G Protein-Coupled Receptor GPR26	LR26	555	CSRRPDERLRFVFTGA	Homo sapiens
2107	190725	G Protein-Coupled Receptor GPR26	LR26	557	CKEILNRLHLRRSIHSSG	Homo sapiens
2108	190725	G Protein-Coupled Receptor GPR26	LR26	567	CLEEQKRRRRQRATKKIST	Homo sapiens
2109	190741	Sreb3	LR9	516	EPEEVSGALSPPSASAVVK	Homo sapiens
2110	190741	Sreb3	LR9	519	NGHAASRRLLGMDEVKGEK	Homo sapiens
2111	190741	Sreb3	LR9	526	KKCLIRTHAPCWGTGGAPAPR	Homo sapiens
2112	190741	Sreb3	LR9	527	VLMAATHAVYGKLLLFYR	Homo sapiens

2113	190742	G Protein-Coupled Receptor H7TBA62	LR23	550	RRAPGPSDTFVFNALAD	Homo sapiens
2114	190742	G Protein-Coupled Receptor H7TBA62	LR23	551	QRRQRRRQDSRVVARSVR	Homo sapiens
2115	190742	G Protein-Coupled Receptor H7TBA62	LR23	552	RREPRQALAGTFRDLRSR	Homo sapiens
2116	190742	G Protein-Coupled Receptor H7TBA62	LR23	553	KQVGRRVWVASNPRESRPS	Homo sapiens
2117	190743	G Protein-Coupled Receptor GPRC5D	LR32	568	KDCIESTG DYFLLCDAEGP	Homo sapiens
2118	190743	G Protein-Coupled Receptor GPRC5D	LR32	569	VENQELSRGTFLGDSGR	Homo sapiens
2119	190743	G Protein-Coupled Receptor GPRC5D	LR32	570	GDSGSREVLQEKQEKNIHA	Homo sapiens
2120	190743	G Protein-Coupled Receptor GPRC5D	LR32	571	SMILRGNPQFQRQPQWDDP	Homo sapiens
2121	190744	G Protein-Coupled Receptor GPRC5C	LR34	529	KVPSEELTSSSHGPPPTAR	Homo sapiens
2122	190744	G Protein-Coupled Receptor GPRC5C	LR34	532	RSGEGGPGQGNSSAGWAV	Homo sapiens
2123	190744	G Protein-Coupled Receptor GPRC5C	LR34	535	QDTKKRSLIGTQVFFLLGT	Homo sapiens
2124	190744	G Protein-Coupled Receptor GPRC5C	LR34	538	KEQKGGQSMFVENKAFSMD	Homo sapiens
2125	190745	G Protein-Coupled Receptor LGR7	LR40	560	TATEIRNQVKKEMILAKR	Homo sapiens
2126	190745	G Protein-Coupled Receptor LGR7	LR40	561	NYRQRKSMDSKGQKTYAPS	Homo sapiens
2127	190745	G Protein-Coupled Receptor LGR7	LR40	565	SCSNLTVLVMRKKNKINHLN	Homo sapiens
2128	190745	G Protein-Coupled Receptor LGR7	LR40	566	DELDLGSNKIENLPPLFKD	Homo sapiens
2129	190748	GPCR Ls190748	LR47	546	QLSSPSRPTQIKTLCSLR	Homo sapiens
2130	190748	GPCR Ls190748	LR47	547	DMIKIASMHSQQRKMEHAG	Homo sapiens
2131	190748	GPCR Ls190748	LR47	548	AGGYRSPRTSPDFKALRTVS	Homo sapiens
2132	190748	GPCR Ls190748	LR47	549	RESSCHIVTSSSEFDG	Homo sapiens
2133	190748	GPCR Ls190748	LR47	1481	GVKKVLTSLFLSARNC	Homo sapiens
2134	190748	GPCR Ls190748	LR47	1482	NSLLNPLYAYWQKEVRLQ	Homo sapiens
2135	190749	G Protein-Coupled	LR48	467	RRAALRPPRPARGSRURSD	Homo sapiens

2136	190749	Receptor GPR62	LR48	468	RPVRLALGRLSRRALPGPVR	Homo sapiens
2137	190749	G Protein-Coupled Receptor GPR62	LR48	510	DSRLSILPPRLRPLGGK	Homo sapiens
2138	190749	G Protein-Coupled Receptor GPR62	LR48	511	RPPEGPAVGPSEAPEQITE	Homo sapiens
2139	190749	G Protein-Coupled Receptor GPR62	LR48	2702	VWARRAALRPPRPA	Homo sapiens
2140	190749	G Protein-Coupled Receptor GPR62	LR48	2703	PSEAPEQTPELAGGR	Homo sapiens
2141	190749	G Protein-Coupled Receptor GPR62	LR48	2704	GPSEAPEQTPELAG	Homo sapiens
2142	190774	Histamine H4 Receptor	NP_067637.2	2235	PDTNSTINLSLSTRVTLAFF	Homo sapiens
2143	190774	Histamine H4 Receptor	NP_067637.2	2237	VVDKNLRHRSSVFFLN	Homo sapiens
2144	190774	Histamine H4 Receptor	NP_067637.2	2240	LYPHTLFEWDFGKEIC	Homo sapiens
2145	190774	Histamine H4 Receptor	NP_067637.2	2242	TQHTGVLKIVTLMVAV	Homo sapiens
2146	190774	Histamine H4 Receptor	NP_067637.2	2243	VNGPMILVSESWKDEGSEC	Homo sapiens
2147	190774	Histamine H4 Receptor	NP_067637.2	2244	CEPGFFSEWYLATSFL	Homo sapiens
2148	190774	Histamine H4 Receptor	NP_067637.2	2245	AYFNMINIYWSLWKRDLHSLRC	Homo sapiens
2149	190774	Histamine H4 Receptor	NP_067637.2	2246	CGHSFRGLSSRRSL	Homo sapiens
2150	190774	Histamine H4 Receptor	NP_067637.2	2247	IASKMGFSQSQSDVALHQRE	Homo sapiens
2151	190774	Histamine H4 Receptor	NP_067637.2	2249	IVLSFYSSATGPKSWWYRIA	Homo sapiens
2152	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2085	IIRVTTPGKGTGTVAC	Homo sapiens
2153	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2086	SPWTNDPKERINVAVA	Homo sapiens
2154	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2087	RIRELLQGMKYKEIGIAVD	Homo sapiens
2155	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2088	TQTSDIATINSTLPSAE	Homo sapiens
2156	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	481	TEVPDSAQTSNTHITSAS	Homo sapiens
2157	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	522	GDTAVERLNVFITMAKV	Homo sapiens
2158	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	523	MSLAKRVMITGLWIFTI	Homo sapiens
2159	190824	Formyl Peptide Receptor-	LR14	525	LHFIIGFTVPMISITV	Homo sapiens

2160	190948	like 2 (FPR2)	NP_038475.1	1658	DELLEAPGDLETLPRLQQHC	Homo sapiens
2161	190948	EMR2 Hormone Receptor	NP_038475.1	1659	CVASHLLDGLDVLRLSKN	Homo sapiens
2162	190948	EMR2 Hormone Receptor	NP_038475.1	1660	KSGDPGFSVVLVSIPG	Homo sapiens
2163	190948	EMR2 Hormone Receptor	NP_038475.1	1661	SKGIRKLKTESEMHTLSS	Homo sapiens
2164	190948	EMR2 Hormone Receptor	NP_038475.1	1662	ELSLEVQKQVDRSVTLRQNG	Homo sapiens
2165	190948	EMR2 Hormone Receptor	NP_038475.1	1663	EPEKQMLLHETHQGGLQDGS	Homo sapiens
2166	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1492	KRMQKRSTALMVLNLALAD	Homo sapiens
2167	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1493	RPFVSQKLRTKAMARR	Homo sapiens
2168	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1494	ASYSDIGRRLLQARRFR	Homo sapiens
2169	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1495	LEGTGSEASSTRRGS	Homo sapiens
2170	191039	Trace Amine Receptor 1 (TA1)	LR122	2039	RKALKMMILFGKIFQKDSIRC	Homo sapiens
2171	191039	Trace Amine Receptor 1 (TA1)	LR122	2040	QIGLEMKNGISQSKERKAV	Homo sapiens
2172	191039	Trace Amine Receptor 1 (TA1)	LR122	2041	RNYLAKAQARLUSDANQK	Homo sapiens
2173	191039	Trace Amine Receptor 1 (TA1)	LR122	2042	ELNFKGAEEIYWKVHC	Homo sapiens
2174	191039	Trace Amine Receptor 1 (TA1)	LR122	2043	CVKNNWSNDVRASLYS	Homo sapiens
2175	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1569	SAEPPADWDGAGGSYRLRG	Homo sapiens
2176	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1571	GIVRRVRVSVKRVSVLN	Homo sapiens
2177	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1572	RNEEFRRSVRSLPGVGDA	Homo sapiens
2178	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1573	CEEEESWAGRRIPVSLLYSG	Homo sapiens
2179	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1651	CYLGIVRRVRVSVKRVSV	Homo sapiens
2180	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1544	KELYRSVVRIRGVGVKVPK	Homo sapiens
2181	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1545	ILNRSQPRDKNVKKCS	Homo sapiens

2182	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1546	CPNSATSLSQDNRKKEQDGG	Homo sapiens
2183	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1570	TTRPKTSNPKNILLGAK	Homo sapiens
2184	191193	Trace Amine Receptor 3 (TA3)	LR88	1969	ANEEGIEELVVA	Homo sapiens
2185	191193	Trace Amine Receptor 3 (TA3)	LR88	2316	RKIESTASQAGSS	Homo sapiens
2186	191193	Trace Amine Receptor 3 (TA3)	LR88	2571	LVDAVIDAYMNF	Homo sapiens
2187	191193	Trace Amine Receptor 3 (TA3)	LR88	2573	RTDSSITNLFSEEVET	Homo sapiens
2188	191196	G Protein-Coupled Receptor GPR80	IP_13092	1864	NASDFPDYAAAFGNCIDE	Homo sapiens
2189	191196	G Protein-Coupled Receptor GPR80	IP_13092	1865	TFLITSTNRTNRSACLD	Homo sapiens
2190	191196	G Protein-Coupled Receptor GPR80	IP_13092	1866	TLTHGLQTDCLKQKARR	Homo sapiens
2191	191196	G Protein-Coupled Receptor GPR80	IP_13092	1867	RLSISCSIEHQIHEA	Homo sapiens
2192	191196	G Protein-Coupled Receptor GPR80	IP_13092	1868	QGAVCSTVRCKVSGNLE	Homo sapiens
2193	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2749	QDIAEVDHSEGCF	Homo sapiens
2194	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2750	RKQWRLQGPILKLA	Homo sapiens
2195	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2751	CSISINFPSFFTVMTC	Homo sapiens
2196	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2752	QWFFULWWKSDV	Homo sapiens
2197	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2575	AFLSDNTIEVRINRTLKK	Homo sapiens
2198	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2576	QETKNEFRNLKQIGSKC	Homo sapiens
2199	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2577	CNNKTHWAPVRSTM	Homo sapiens
2200	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2581	TKMAEYDLQNDVFIIPD	Homo sapiens
2201	193511	EGF-Like Module-Containing	AAK15076.1	1665	CQDTSKTKTEGRKELQKIV	Homo sapiens

2202	193511	Mucin-Like Receptor EMR3	AAK15076.1	1666	RDVESKVLLETALKDPEQK	Homo sapiens
2203	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	AAK15076.1	1667	KIQNDSVAIETQAITDNC	Homo sapiens
2204	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	AAK15076.1	1668	CSEERKTFNLNVQMNSMIDIR	Homo sapiens
2205	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	AAK15076.1	1669	EEMDKKQVYVLSQVVSAA	Homo sapiens
2206	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	AAK15076.1	1670	SKSVTLTFQHVKMTPTSK	Homo sapiens
2207	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2142	CLLLPTAVIVFSVVKIAK	Homo sapiens
2208	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2144	RPDSIPQLSVVPTLLA	Homo sapiens
2209	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2145	CQTGGGLKATKKKSLEG	Homo sapiens
2210	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2146	RLHTVTIVRKSSAVLE	Homo sapiens
2211	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2620	PTAVIVFSVVKIAKV	Homo sapiens
2212	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1947	KLAQRRLREVLTGHTDHYFSQD	Homo sapiens
2213	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1948	CALQITWGSERRLGLDTSKD	Homo sapiens
2214	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2734	RGRRQSARNSRGPPEQPNE	Homo sapiens
2215	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2735	RNSRGPPEQPNEELG	Homo sapiens
2216	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2736	AQVREDVRPHTTVLR	Homo sapiens
2217	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2742	QLDQVPSRHPSRE	Homo sapiens

2218	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2744	LDLSLRSSNSREQLDQV	Homo sapiens
2219	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1903	REEHHFMVDARNRSPLYSC	Homo sapiens
2220	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1904	PGPAPGGEEAADPRASRR	Homo sapiens
2221	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1905	CRPPSGSHKEAYSERPGGL	Homo sapiens
2222	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1906	PSSGAPRPRGRPLRNGRVA	Homo sapiens
2223	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2018	FLGKNDDIKTKKELVN	Homo sapiens
2224	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2019	QVTVYRDSKEKRDLRNFLK	Homo sapiens
2225	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2020	CERTKWGTFKINERFTND	Homo sapiens
2226	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2021	SKYANGIEIQLKKAYER	Homo sapiens
2227	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2022	CIVVFIVRTERSLHAP	Homo sapiens
2228	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2023	KILALFWFDSREISFEAC	Homo sapiens
2229	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2024	CVHQDVMKLAYADILP	Homo sapiens
2230	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2027	RFGNSLHPVIRVVMGD	Homo sapiens
2231	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2028	KTKQIRTRVLMFKISC	Homo sapiens
2232	194743	FLJ14454	LR77	1855	KTDENEQDQASASVDMVFSP	Homo sapiens
2233	194743	FLJ14454	LR77	1856	KDYQYPKSLDILSNVGC	Homo sapiens
2234	194743	FLJ14454	LR77	1857	KNLQTSDDGDIINIDFDNN	Homo sapiens
2235	194743	FLJ14454	LR77	1858	SQNGNPNQWELDYRQEKIC	Homo sapiens
2236	194743	FLJ14454	LR77	1859	RPRLRVKMYNFLRSLPTLHE	Homo sapiens
2237	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1845	CNPSVPKQVRVMKLTGM	Homo sapiens
2238	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1846	RLTRWRTRYKTIRINLG	Homo sapiens
2239	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1847	KDGVESCAFDLTSPDDVL	Homo sapiens
2240	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1848	LSGNFQKRLPQIQRRATE	Homo sapiens

2241	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1849	TIISRKKTVPIYIC	Homo sapiens
2242	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1907	RRATEKINNMGNTLKSHF	Homo sapiens
2243	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2089	CRIEGDTISQVMPPLIIVA	Homo sapiens
2244	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2090	RRHWAFGDIPCRVGLFTL	Homo sapiens
2245	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2091	CESFIMESANGWHDIM	Homo sapiens
2246	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2092	CSFKIVWSLRRRQQLARQAR	Homo sapiens
2247	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2093	RRRQQLARQARMKKATR	Homo sapiens
2248	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2094	TVSSACDPSVHGALH	Homo sapiens
2249	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2095	CSLKPQPGHSHKTQRPEEM	Homo sapiens
2250	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2096	CISVANSFQSQSDGQWD	Homo sapiens
2251	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2034	RTRKQHSEATNSSNRVFC	Homo sapiens
2252	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2035	RVISQISADNYKIHGDPSA	Homo sapiens
2253	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2036	TSSSARTSNAKPFHSD	Homo sapiens
2254	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2037	NGTRPGMASTKLSPWD	Homo sapiens
2255	194858	G Protein-Coupled Receptor Ls194858	LR84	1933	LGIAWDRRLRSPAGC	Homo sapiens
2256	194858	G Protein-Coupled Receptor Ls194858	LR84	1934	GERYMAVLRPLQPPGS	Homo sapiens
2257	194858	G Protein-Coupled Receptor Ls194858	LR84	1935	CRDEPSALARALTWRQAR	Homo sapiens
2258	194858	G Protein-Coupled Receptor Ls194858	LR84	1936	AAQRCLQGLWGRASRD	Homo sapiens
2259	194858	G Protein-Coupled Receptor Ls194858	LR84	1937	RDSPGPSIAYHPSSQSSVD	Homo sapiens
2260	194878	MrgX3 G Protein-Coupled	AAK91806.1	2748	ALFSRIHLDWKVLF	Homo sapiens

2261	194903	Receptor G Protein-Coupled Receptor GPCR83	ENSP00000198236	1991	CIAFKDIMPFSAGVGDER	Homo sapiens
2262	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1992	KAFEEAYARADKKAPRPC	Homo sapiens
2263	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1993	ETKIQWHGKDNQVPKSVCS	Homo sapiens
2264	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1994	CSYLGKDLPENYNEAK	Homo sapiens
2265	194904	WO00343334-hFB41A	LR114	2011	SDYDMPLEDEDEDVINS	Homo sapiens
2266	194904	WO00343334-hFB41A	LR114	2014	NPHGAHATSPFNFSY	Homo sapiens
2267	194905	G Protein-Coupled Receptor MGC7035	LR112	1986	ERALPRTYMASVYNTRHVC	Homo sapiens
2268	194905	G Protein-Coupled Receptor MGC7035	LR112	1987	CAKMQNAEAAADATLVF	Homo sapiens
2269	194905	G Protein-Coupled Receptor MGC7035	LR112	1988	DRDTGRLEPSAHRLLVATVC	Homo sapiens
2270	194905	G Protein-Coupled Receptor MGC7035	LR112	1989	RYMNGSFPSKQLRLMIKKLPC	Homo sapiens
2271	194907	G Protein-Coupled Receptor 14273	LR116	2003	CARAAGDAPLRSLEQANRTR	Homo sapiens
2272	194907	G Protein-Coupled Receptor 14273	LR116	2004	VISYSKILQTTKASRKRL	Homo sapiens
2273	194907	G Protein-Coupled Receptor 14273	LR116	2005	TVSLAYSRSHQIRVSQQD	Homo sapiens
2274	194907	G Protein-Coupled Receptor 14273	LR116	2006	CTWFPEKGALTDTSVKRND	Homo sapiens
2275	194908	G Protein-coupled Receptor Gpcrb4	LR117	2007	TYGRDNGQLGERVARRDIC	Homo sapiens
2276	194908	G Protein-coupled Receptor Gpcrb4	LR117	2008	GETLPTLGPNQNMVTSEERQR	Homo sapiens
2277	194908	G Protein-coupled Receptor Gpcrb4	LR117	2009	RTSQSYTCNGECDNCLNAT	Homo sapiens
2278	194908	G Protein-coupled Receptor Gpcrb4	LR117	2010	RPQSHPRTPDDPKITVSC	Homo sapiens
2279	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2312	VARRQAKKIENTGSKT	Homo sapiens
2280	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2313	KVIVTGQVLKNSSA	Homo sapiens

2281	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2318	MSSNSSLLVAVQLC	Homo sapiens
2282	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2307	IAKQGAIKETTSKV	Homo sapiens
2283	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2314	MTSNFSQPVVQLC	Homo sapiens
2284	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2319	KUILSGDVLKAS	Homo sapiens
2285	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2570	SGDVLKASSSTISLFL	Homo sapiens
2286	194989	MigX4 G Protein-Coupled Receptor	AAK91807.1	2727	QDKPEVDKGGGQLPEESL	Homo sapiens
2287	194989	MigX4 G Protein-Coupled Receptor	AAK91807.1	2728	LNISHURKILVS	Homo sapiens
2288	194989	MigX4 G Protein-Coupled Receptor	AAK91807.1	2729	MDPTVPVFGTKL	Homo sapiens
2289	195015	G Protein-Coupled Receptor GPR82	AAL26482	2706	RYATLMQKDSSETT	Homo sapiens
2290	195015	G Protein-Coupled Receptor GPR82	AAL26482	2707	KIFYGHLTKKFRQPNF	Homo sapiens
2291	195015	G Protein-Coupled Receptor GPR82	AAL26482	2708	YSVIEATEGEESLC	Homo sapiens
2292	195015	G Protein-Coupled Receptor GPR82	AAL26482	2715	CTSIMEKDLTYSSVKR	Homo sapiens

SEQ ID NO:	LS_ID	Gene	Antibody Company Name
1	127	5-HT1A Receptor	Chemicon
1	127	5-HT1A Receptor	Research Diagnostics
1	127	5-HT1A Receptor	Santa Cruz
3	128	5-HT1B Receptor	Chemicon
3	128	5-HT1B Receptor	Research Diagnostics
3	128	5-HT1B Receptor	Santa Cruz
5	129	5-HT1D Receptor	Research Diagnostics
5	129	5-HT1D Receptor	Santa Cruz
11	132	5-HT2A Receptor	Calbiochem
11	132	5-HT2A Receptor	Research Diagnostics
13	133	5-HT2B Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Santa Cruz
21	139	5-HT7 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Alpha Diagnostic Int.
23	272	Adenosine A1 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Santa Cruz
25	273	Adenosine A2a Receptor	Alpha Diagnostic Int.
25	273	Adenosine A2a Receptor	Calbiochem
25	273	Adenosine A2a Receptor	Chemicon
25	273	Adenosine A2a Receptor	Santa Cruz
27	274	Adenosine A2b Receptor	Alpha Diagnostic Int.
27	274	Adenosine A2b Receptor	Chemicon
27	274	Adenosine A2b Receptor	Santa Cruz
29	275	Adenosine A3 Receptor	Alpha Diagnostic Int.
29	275	Adenosine A3 Receptor	Santa Cruz
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Alpha Diagnostic Int.
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Chemicon
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Research Diagnostics
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Santa Cruz
35	377	Alpha 1b-adrenoceptor	Research Diagnostics
35	377	Alpha 1b-adrenoceptor	Santa Cruz
37	379	Alpha 1c-adrenoceptor	Research Diagnostics
37	379	Alpha 1c-adrenoceptor	Santa Cruz
39	387	Alpha 2a-adrenoceptor	Calbiochem
39	387	Alpha 2a-adrenoceptor	Santa Cruz
41	388	Alpha 2b-adrenoceptor	Research Diagnostics
41	388	Alpha 2b-adrenoceptor	Santa Cruz
43	389	Alpha 2c-adrenoceptor	Research Diagnostics
43	389	Alpha 2c-adrenoceptor	Santa Cruz
45	599	Bradykinin B1 Receptor	Research Diagnostics
49	635	Beta-1 adrenoceptor	Calbiochem
49	635	Beta-1 adrenoceptor	Research Diagnostics

49	635	Beta-1 adrenoceptor	Santa Cruz
51	640	Beta-2 adrenoceptor	Research Diagnostics
51	640	Beta-2 adrenoceptor	Santa Cruz
53	643	Beta-3 adrenoceptor	Alpha Diagnostic Int.
53	643	Beta-3 adrenoceptor	Chemicon
53	643	Beta-3 adrenoceptor	Research Diagnostics
53	643	Beta-3 adrenoceptor	Santa Cruz
57	692	Bombesin Receptor Subtype-3	Alpha Diagnostic Int.
57	692	Bombesin Receptor Subtype-3	Chemicon
59	729	CXC Chemokine Receptor 5	Research Diagnostics
59	729	CXC Chemokine Receptor 5	Santa Cruz
61	735	C-C Chemokine Receptor 1	Calbiochem
61	735	C-C Chemokine Receptor 1	Capralogics
61	735	C-C Chemokine Receptor 1	Chemicon
61	735	C-C Chemokine Receptor 1	Research Diagnostics
61	735	C-C Chemokine Receptor 1	Santa Cruz
63	737	C-C Chemokine Receptor 3	Research Diagnostics
63	737	C-C Chemokine Receptor 3	Santa Cruz
65	738	C-C Chemokine Receptor 4	Capralogics
65	738	C-C Chemokine Receptor 4	Research Diagnostics
65	738	C-C Chemokine Receptor 4	Santa Cruz
67	741	C-C Chemokine Receptor 7	Research Diagnostics
67	741	C-C Chemokine Receptor 7	Santa Cruz
69	742	C-C Chemokine Receptor 8	Chemicon
70	742	C-C Chemokine Receptor 8	Chemicon
71	742	C-C Chemokine Receptor 8	Chemicon
73	752	CXC Chemokine Receptor 3	Research Diagnostics
73	752	CXC Chemokine Receptor 3	Santa Cruz
73	752	CXC Chemokine Receptor 3	Zymed
75	753	CXC Chemokine Receptor 4	Biosource
75	753	CXC Chemokine Receptor 4	Calbiochem
75	753	CXC Chemokine Receptor 4	Capralogics
75	753	CXC Chemokine Receptor 4	Chemicon
75	753	CXC Chemokine Receptor 4	eBioscience
75	753	CXC Chemokine Receptor 4	Research Diagnostics
75	753	CXC Chemokine Receptor 4	Santa Cruz
77	755	Complement Component 3a Receptor 1	Chemokine.com
79	758	Complement Component 5a Receptor 1	Santa Cruz
83	832	Cannabinoid Receptor 1	Alpha Diagnostic Int.
83	832	Cannabinoid Receptor 1	Biosource
83	832	Cannabinoid Receptor 1	Calbiochem
83	832	Cannabinoid Receptor 1	Cayman
83	832	Cannabinoid Receptor 1	Chemicon
83	832	Cannabinoid Receptor 1	Santa Cruz
85	833	Cannabinoid Receptor 2	Alpha Diagnostic Int.
85	833	Cannabinoid Receptor 2	Calbiochem
85	833	Cannabinoid Receptor 2	Cayman
85	833	Cannabinoid Receptor 2	Chemicon
85	833	Cannabinoid Receptor 2	Santa Cruz
97	1240	Dopamine Receptor D1	Alpha Diagnostic Int.
97	1240	Dopamine Receptor D1	Biogenesis

97	1240	Dopamine Receptor D1	Calbiochem
97	1240	Dopamine Receptor D1	Chemicon
97	1240	Dopamine Receptor D1	FabGennix through Abcam
97	1240	Dopamine Receptor D1	Research Diagnostics
97	1240	Dopamine Receptor D1	Santa Cruz
99	1241	Dopamine Receptor D5	Alpha Diagnostic Int.
99	1241	Dopamine Receptor D5	Biogenesis
99	1241	Dopamine Receptor D5	Calbiochem
99	1241	Dopamine Receptor D5	Chemicon
99	1241	Dopamine Receptor D5	Santa Cruz
101	1242	Dopamine Receptor D2	Alpha Diagnostic Int.
101	1242	Dopamine Receptor D2	Biogenesis
101	1242	Dopamine Receptor D2	Calbiochem
101	1242	Dopamine Receptor D2	Chemicon
101	1242	Dopamine Receptor D2	DPC Biermann/Acris
101	1242	Dopamine Receptor D2	FabGennix through Abcam
101	1242	Dopamine Receptor D2	Research Diagnostics
101	1242	Dopamine Receptor D2	Santa Cruz
103	1243	Dopamine Receptor D3	Alpha Diagnostic Int.
103	1243	Dopamine Receptor D3	Biogenesis
103	1243	Dopamine Receptor D3	Calbiochem
103	1243	Dopamine Receptor D3	Chemicon
103	1243	Dopamine Receptor D3	Research Diagnostics
103	1243	Dopamine Receptor D3	Santa Cruz
103	1243	Dopamine Receptor D3	Zymed
105	1244	Dopamine Receptor D4	Alpha Diagnostic Int.
105	1244	Dopamine Receptor D4	Biogenesis
105	1244	Dopamine Receptor D4	Calbiochem
105	1244	Dopamine Receptor D4	Chemicon
105	1244	Dopamine Receptor D4	DPC Biermann/Acris
105	1244	Dopamine Receptor D4	Santa Cruz
107	1267	Opioid Receptor, delta 1 (OPRD1)	Biosource
107	1267	Opioid Receptor, delta 1 (OPRD1)	Calbiochem
107	1267	Opioid Receptor, delta 1 (OPRD1)	DPC Biermann/Acris
107	1267	Opioid Receptor, delta 1 (OPRD1)	Santa Cruz
113	1486	Endothelin B Receptor	Biogenesis
113	1486	Endothelin B Receptor	Capralogics
113	1486	Endothelin B Receptor	DPC Biermann/Acris
113	1486	Endothelin B Receptor	Fitzgerald Industries Int.
113	1486	Endothelin B Receptor	Research Diagnostics
115	1488	Endothelin A Receptor	Biogenesis
115	1488	Endothelin A Receptor	Capralogics
115	1488	Endothelin A Receptor	DPC Biermann/Acris
115	1488	Endothelin A Receptor	Fitzgerald Industries Int.
115	1488	Endothelin A Receptor	Research Diagnostics
117	1598	Calcium-Sensing Receptor (CASR)	Chemicon
117	1598	Calcium-Sensing Receptor (CASR)	DPC Biermann/Acris

121	1681	Follicle Stimulating Hormone Receptor	Biogenesis
121	1681	Follicle Stimulating Hormone Receptor	DPC Biermann/Acris
121	1681	Follicle Stimulating Hormone Receptor	Santa Cruz
125	1762	Galanin Receptor GalR1	Alpha Diagnostic Int.
135	1925	Gonadotropin-Releasing Hormone Receptor	Biocarta
135	1925	Gonadotropin-Releasing Hormone Receptor	Lab Vision Corporation/NeoMarkers
135	1925	Gonadotropin-Releasing Hormone Receptor	Research Diagnostics
135	1925	Gonadotropin-Releasing Hormone Receptor	Santa Cruz
139	1951	Growth Hormone Secretagogue Receptor	Santa Cruz
143	2120	Histamine H1 Receptor	Alpha Diagnostic Int.
143	2120	Histamine H1 Receptor	Chemicon
145	2121	Histamine H2 Receptor	Alpha Diagnostic Int.
145	2121	Histamine H2 Receptor	Chemicon
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Biosource
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Calbiochem
147	2783	Opioid Receptor, kappa 1 (OPRK1)	DPC Biermann/Acris
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Santa Cruz
151	2976	Lysophosphatidic Acid Receptor Edg2	Exalpha Biologicals
155	3057	Melanocortin 3 Receptor (MC3R)	Alpha Diagnostic Int.
155	3057	Melanocortin 3 Receptor (MC3R)	Chemicon
155	3057	Melanocortin 3 Receptor (MC3R)	Research Diagnostics
155	3057	Melanocortin 3 Receptor (MC3R)	Santa Cruz
157	3058	Melanocortin 4 Receptor (MC4R)	Alpha Diagnostic Int.
157	3058	Melanocortin 4 Receptor (MC4R)	Chemicon
157	3058	Melanocortin 4 Receptor (MC4R)	Research Diagnostics
157	3058	Melanocortin 4 Receptor (MC4R)	Santa Cruz
159	3059	Melanocortin 5 Receptor (MC5R)	Alpha Diagnostic Int.
159	3059	Melanocortin 5 Receptor (MC5R)	Chemicon
159	3059	Melanocortin 5 Receptor (MC5R)	Research Diagnostics

159	3059	Melanocortin 5 Receptor (MC5R)	Santa Cruz
161	3061	Melanocortin 1 Receptor (MC1R)	Alpha Diagnostic Int.
161	3061	Melanocortin 1 Receptor (MC1R)	Chemicon
161	3061	Melanocortin 1 Receptor (MC1R)	Research Diagnostics
161	3061	Melanocortin 1 Receptor (MC1R)	Santa Cruz
169	3093	Metabotropic Glutamate Receptor 1	Chemicon
171	3094	Metabotropic Glutamate Receptor 2	Chemicon
173	3095	Metabotropic Glutamate Receptor 3	Chemicon
175	3096	Metabotropic Glutamate Receptor 4	Zymed
177	3097	Metabotropic Glutamate Receptor 5	Chemicon
183	3100	Metabotropic Glutamate Receptor 8	Chemicon
185	3212	Opioid mu-type Receptor	Biosource
185	3212	Opioid mu-type Receptor	Calbiochem
185	3212	Opioid mu-type Receptor	Chemicon
185	3212	Opioid mu-type Receptor	DPC Biermann/Acris
185	3212	Opioid mu-type Receptor	Santa Cruz
187	3223	Muscarinic acetylcholine Receptor M1	Biogenesis
187	3223	Muscarinic acetylcholine Receptor M1	Calbiochem
187	3223	Muscarinic acetylcholine Receptor M1	Chemicon
187	3223	Muscarinic acetylcholine Receptor M1	Santa Cruz
189	3224	Muscarinic acetylcholine Receptor M2	Biogenesis
189	3224	Muscarinic acetylcholine Receptor M2	Calbiochem
189	3224	Muscarinic acetylcholine Receptor M2	Chemicon
189	3224	Muscarinic acetylcholine Receptor M2	Santa Cruz
191	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
192	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
191	3226	Muscarinic acetylcholine Receptor M4	Chemicon
192	3226	Muscarinic acetylcholine Receptor M4	Chemicon
191	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz

192	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz
194	3227	Muscarinic Acetylcholine Receptor M5	Biogenesis
194	3227	Muscarinic Acetylcholine Receptor M5	Santa Cruz
200	3404	Neuropeptide Y Receptor Type 2	Biogenesis
202	3405	Neuropeptide Y Receptor Type 4	Biogenesis
206	3408	Neurotensin Receptor Type 1	Santa Cruz
208	3452	Opiate Receptor-Like 1 (OPRL1)	Santa Cruz
214	3582	Oxytocin Receptor	Santa Cruz
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Chemicon
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Zymed
218	3595	Purinergic Receptor P2Y1	Chemicon
218	3595	Purinergic Receptor P2Y1	Zymed
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Biocarta
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Lab Vision Corporation/NeoMarkers
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Santa Cruz
236	3846	Sphingolipid Receptor Edg1	Exalpa Biologicals
238	3847	Sphingolipid Receptor Edg3	Exalpa Biologicals
240	3848	C-C Chemokine Receptor 9	Research Diagnostics
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemicon
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemokine.com
248	3852	CX3C Chemokine Fractalkine Receptor 1	eBioscience
250	3853	G Protein-Coupled Receptor GPR15	Santa Cruz
264	3860	G Protein-Coupled Receptor SLC/MCH1	Alpha Diagnostic Int.
264	3860	G Protein-Coupled Receptor SLC/MCH1	Santa Cruz
295	3927	Prostaglandin E Receptor EP4	Cayman
299	4051	Proteinase-Activated Receptor 2	Research Diagnostics
299	4051	Proteinase-Activated Receptor 2	Santa Cruz
301	4052	Proteinase-Activated Receptor 3	Research Diagnostics
301	4052	Proteinase-Activated Receptor 3	Santa Cruz
305	4254	Rhodopsin	Biocarta
305	4254	Rhodopsin	DPC Biermann/Acris
311	4480	Somatostatin Receptor Type 1	Santa Cruz

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313	4481	Somatostatin Receptor Type 2	Biogenesis
313	4481	Somatostatin Receptor Type 2	Santa Cruz
315	4482	Somatostatin Receptor Type 3	Santa Cruz
317	4483	Somatostatin Receptor Type 4	Santa Cruz
319	4484	Somatostatin Receptor Type 5	Santa Cruz
321	4552	Tachykinin Receptor 1	Santa Cruz
323	4687	Thrombin Receptor	DPC Biermann/Acris
323	4687	Thrombin Receptor	Research Diagnostics
323	4687	Thrombin Receptor	Santa Cruz
325	4734	Thyrotropin Releasing Hormone Receptor	Santa Cruz
327	4944	Angiotensin II Type 1 Receptor	Alpha Diagnostic Int.
327	4944	Angiotensin II Type 1 Receptor	Biocarta
327	4944	Angiotensin II Type 1 Receptor	Biogenesis
327	4944	Angiotensin II Type 1 Receptor	Capralogics
327	4944	Angiotensin II Type 1 Receptor	Chemicon
327	4944	Angiotensin II Type 1 Receptor	DPC Biermann/Acris
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Lab Vision Corporation/NeoMarkers
327	4944	Angiotensin II Type 1 Receptor	Santa Cruz
329	4946	Angiotensin II Type 2 Receptor	Alpha Diagnostic Int.
329	4946	Angiotensin II Type 2 Receptor	DPC Biermann/Acris
329	4946	Angiotensin II Type 2 Receptor	Santa Cruz
331	5072	Pyrimidinergic Receptor P2Y4	Chemicon
333	5117	Vasopressin V1A Receptor	Chemicon
335	5118	Vasopressin V1B Receptor	Alpha Diagnostic Int.
335	5118	Vasopressin V1B Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Alpha Diagnostic Int.
337	5119	Vasopressin V2 Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Research Diagnostics
347	6031	SIV/HIV Receptor BONZO	Santa Cruz
349	6204	Lysophosphatidic Acid Receptor Edg4	Exalpa Biologicals
351	6213	C-C Chemokine Receptor 5	Calbiochem
351	6213	C-C Chemokine Receptor 5	Capralogics
351	6213	C-C Chemokine Receptor 5	Chemicon
351	6213	C-C Chemokine Receptor 5	Research Diagnostics
351	6213	C-C Chemokine Receptor 5	Santa Cruz
361	6853	Purinergic Receptor P2Y11	Zymed

365	7221	Galanin Receptor GalR2	Alpha Diagnostic Int.
367	7246	Orexin Receptor 1	Alpha Diagnostic Int.
369	7247	Orexin Receptor 2	Alpha Diagnostic Int.
371	8436	Platelet-Activating Factor Receptor	Cayman
371	8436	Platelet-Activating Factor Receptor	Santa Cruz
377	9421	Neuropeptide Y Receptor Type 1	Biogenesis
377	9421	Neuropeptide Y Receptor Type 1	DPC Biermann/Acris
379	9834	Corticotropin releasing factor Receptor 1	Research Diagnostics
379	9834	Corticotropin releasing factor Receptor 1	Santa Cruz
385	14198	Interleukin-8 Receptor B	Biosource
385	14198	Interleukin-8 Receptor B	R&D Systems
385	14198	Interleukin-8 Receptor B	Research Diagnostics
385	14198	Interleukin-8 Receptor B	Santa Cruz
387	14641	Calcitonin Receptor	Santa Cruz
389	16041	C-C Chemokine Receptor 6	Research Diagnostics
389	16041	C-C Chemokine Receptor 6	Santa Cruz
391	16599	Smoothened	Research Diagnostics
391	16599	Smoothened	Santa Cruz
397	17535	Gaba(b) Receptor 1	Alpha Diagnostic Int.
397	17535	Gaba(b) Receptor 1	Calbiochem
397	17535	Gaba(b) Receptor 1	Chemicon
397	17535	Gaba(b) Receptor 1	Santa Cruz
423	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	Santa Cruz
435	54053	Gaba(b) Receptor 2	Alpha Diagnostic Int.
435	54053	Gaba(b) Receptor 2	Chemicon
439	56923	Muscarinic acetylcholine Receptor M3	Biogenesis
439	56923	Muscarinic acetylcholine Receptor M3	Santa Cruz
457	152201	Thyrotropin Receptor	DPC Biermann/Acris
457	152201	Thyrotropin Receptor	Santa Cruz
459	152245	C-C Chemokine Receptor 2	Research Diagnostics
459	152245	C-C Chemokine Receptor 2	Santa Cruz
461	152299	Interleukin-8 Receptor A	Biosource
462	152299	Interleukin-8 Receptor A	Biosource
461	152299	Interleukin-8 Receptor A	R&D Systems
462	152299	Interleukin-8 Receptor A	R&D Systems
461	152299	Interleukin-8 Receptor A	Research Diagnostics
462	152299	Interleukin-8 Receptor A	Research Diagnostics
461	152299	Interleukin-8 Receptor A	Santa Cruz
462	152299	Interleukin-8 Receptor A	Santa Cruz
468	159973	Vasoactive Intestinal Polypeptide Receptor 1	Exalpha Biologicals
470	160040	Vasoactive Intestinal Polypeptide Receptor 2	Exalpha Biologicals
472	160055	Motilin Receptor (GPR38)	Santa Cruz

503	160228	T-Cell Death-Associated Gene 8 (GPR65)	Santa Cruz
507	160312	Sphingolipid Receptor Edg5	Exalpha Biologicals
515	160329	Proteinase-Activated Receptor 4	Santa Cruz
535	161214	Galanin Receptor GalR3	Alpha Diagnostic Int.
537	161221	Urotensin-II Receptor (GPR14)	Santa Cruz
546	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Cayman
548	177191	Histamine H3 Receptor	Alpha Diagnostic Int.
548	177191	Histamine H3 Receptor	Chemicon
552	180956	Lysophosphatidic Acid Receptor Edg7	Exalpha Biologicals
562	189900	Sphingolipid Receptor Edg8	Exalpha Biologicals
628	190774	Histamine H4 Receptor	Alpha Diagnostic Int.
628	190774	Histamine H4 Receptor	Chemicon
636	190955	Leukotriene B4 Receptor BLT1	Cayman